W. L. Long.
Dec 21 1878.

Dept of Docks

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CITY OF NEW YORK.

DEPARTMENT OF DOCKS.

ANNUAL REPORT.

APRIL 30, 1878.

EVENING POST STEAM PRESSES, 208 BROADWAY.

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EIGHTH

ANNUAL REPORT

OF THE

DEPARTMENT OF DOCKS,

FOR THE YEAR ENDING APRIL 30th, 1878.

NEW YORK:
EVENING POST STEAM PRESSES, 208 BROADWAY, COR. FULTON ST

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REPORT.

DEPARTMENT OF DOCKS,
NOS. 117 AND 119 DUANE STREET,
NEW YORK, November 23d, 1878.

To the Honorable SMITH ELY, JR.,

Mayor of the City of New York:

SIR,—Pursuant to the provisions of sub-division 9 of Section 6, of Chapter 574, Laws of 1871, the Board of Commissioners governing the Department of Docks submits this Report of its transactions from the 1st day of May, 1877, to the 30th day of April, 1878, being its Eighth Annual Report.

The following named Commissioners compose the present Board:

JACOB A. WESTERVELT,
HENRY F. DIMOCK,
JACOB VANDERPOEL.

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The law provides that the Report shall contain:

First.—The name, occupation and compensation of all persons appointed and employed by said Board.

Second.—A statement of the action of the Board for the past year, classified with reference to the various subjects and duties which have engaged the attention of the Board.

Third.—A list of the orders and rules made by said Board, and a description of the contracts made by said Board; the payments made by said Board, and the purposes and amounts thereof; and the leases made by said Board, for what term, at what rent, to whom and for what property.

FIRST.

The following is a list of all persons appointed and employed by the Board, showing the name, occupation and compensation of each, respectively:

Name.	Occupation.	Compensation.
Eugene T. Lynch	Secretary	$3,500 00 p. annum.
William W. Burnham	Bookkeeper	3,000 00 "
William M. Whitney	Chief Clerk	2,500 00 "
John M. Smith	Supt. of Docks	1,500 00 "
James Fitzpatrick	" "	1,500 00 "
William McConkey	" "	1,500 00 "
John Butler	" "	1,500 00 "
Joseph T. Kelly	Assistant-Bookkeeper	1,800 00 "
Edward Dickel	Temporary Clerk	125 00 p. month.
Amzi Cook	Inspector	3 00 p. day.
Thomas Early	Messenger	1,000 00 p. annum.
George S. Hunt	"	10 00 p. week.
Eugene Conkling	Office Messenger	10 00 "
Hugh Fitzpatrick	Night Watchman	2 25 p. day.
Office of Engineer-in-Chief.		
George S. Greene, Jr.	Engineer-in-Chief	6,000 00 p. annum.
Willard A. Nichols	First Assistant-Engineer	3,600 00 "
William W. Maclay	Assistant-Engineer	2,500 00 "
Charlton B. Kid	"	2,500 00 "
Thomas Murphy	Supt. of Masonry Con.	2,250 00 "
James Guthrie	Supt. of Construction	2,500 00 "
Patrick White	Foreman Dockbuilder	1,500 00 "
David T. Keiller	Draughtsman	1,800 00 "
Thomas J. Long	"	100 00 p. month.
Moses S. Barrett	Surveyor	1,500 00 p. annum.
John H. Staats	Transitman	1,000 00 "
Charles W. Raymond	Leveler	75 00 p. month.
Robert M. Kid	Assistant-Draughtsman	3 00 p. day.
William Livingstone	"	3 00 "
John K. Murphy	Copyist	2 00 "
Frederick Lange	Messenger	12 00 p. week.
James O'Brien	Roundsman	100 00 p. month.

The following mentioned discharges, resignations and new appointments have taken place during the year:

June 15th, 1877.—William M. Purdy, Temporary Clerk, was discharged.

June 28th, 1877.—Herman Winter, Engineer of Floating Property, resigned, to take effect from June 30th, 1877.

July 11th, 1877.—Otho H. Klemm, Clerk to Auditing Committee, was discharged, to take effect from July 31st, 1877.

October 24th, 1877.—Edward Dickel was appointed Temporary Clerk, at a salary of $125 per month.

SECOND.

The Board submits the following statement of the subjects and duties which have engaged its attention during the year ending April 30th, 1878:

I.—Organization.

May 2d, 1877.—An annual election for officers of the Board to serve for the ensuing year was held, in compliance with the by-laws, when Commissioner Wales was elected President *pro tempore*, and Commissioner Westervelt was re-authorized to act as Treasurer *pro tempore*, until a Treasurer should be elected.

May 9th, 1877.—Jacob Vanderpoel, appointed by his Honor the Mayor, on the 3d instant, and confirmed by

the Board of Aldermen, a Commissioner of Docks for the term of six years, from May 1st, 1877, to fill the vacancy caused in the Board by the expiration of the term of Salem H. Wales, presented his certificate of appointment, stated that he had taken the oath of office and was prepared to assume the duties of a Commissioner of Docks, and was admitted to a seat in the Board.

July 11th, 1877.—In compliance with the by-laws, an annual election of officers of the Board was held, when Commissioner Westervelt was elected President of the Board, and Commissioner Vanderpoel was elected Treasurer of the Department, for the year ending April 30th, 1878.

The following Standing Committees were then appointed by the President, for the year:

Executive Committee.—Commissioners DIMOCK and VANDERPOEL.

Auditing Committee.—Commissioners VANDERPOEL and DIMOCK.

July 18th, 1877.—The by-laws were amended, in the wording of *Sec.* 3, *Art.* 5, making the bond to be given by the Treasurer to be for the sum of not less than five thousand dollars.

II.—General Duties.

During the past year the Department has been occupied with a very large amount of general business.

The duties of this Commission are constantly increasing in volume and importance, and comprise, in general, the following, among others:

The management, as property, of the many miles of water front and piers owned by the City, an estate worth many millions of dollars.

The general supervision over all the water front and piers not owned by the City, being more than half of the whole water front.

The duty of seeing that the whole water property, both public and private, is properly dredged and kept in suitable condition and repair for general use.

The making of rules and regulations as to the use of all the water front and the setting of it aside for special uses.

The duty of passing upon all erections, structures and superstructures, and upon all proposed modifications or increase of every kind of terminal facility.

The duty of carrying out the rebuilding on the new plan of the whole water front property.

Many of these duties are purely legislative, and were retained by the State Legislature until devolved upon this Board as a legislative body.

III.—Operations on the Water Front.

New Piers Built.—Pier Old 43, upon examination proved to be in very good condition, and it has been lengthened 161 feet, and is now Pier 35 in the new plan.

Pier Old 45 has been converted into Pier New 37, similarly, by being extended 140 feet.

Pier Old 46 has been entirely removed, and Pier New 38 has been built on its site. This pier is 587 feet long and 75 feet wide and was built by contract. This pier has been leased for $30,000 per annum.

Pier New 39, has been completed in the last year. This pier is 582 feet long and 75 feet wide, and was built by contract. It has been leased for $30,000 per annum.

A small wooden crib pier at the foot of Fifty-fourth Street, East River, has also been built by contract. It is 60 feet wide and 36 feet long.

Bulkhead Wall.—During the year the Department has been completing the wall in the section between Canal and West Eleventh Streets.

This section is now nearly completed.

The Department has also commenced building the wall between Warren and Canal Streets.

We have entered on the construction of 560 feet from Warren Street northerly—the territory leased to the Erie Railroads. On the completion of this territory, and the building of two piers, the roads have entered into contract to pay a yearly rental of $95,000 for its use.

The amount of wall constructed during the year is equivalent to about 746 feet of completed wall.

The Department has been building the wall, which was fully described in our last Annual Report, with good re-

sults. And we still believe that its average cost will not be materially in excess of $200 per lineal foot.

The section between Canal and West Eleventh Streets, now nearly completed, affords room for nearly all the foreign lines of steamers running to this port.

With a street 250 feet wide, ample facilities for connecting by tracks the railroads and the piers exist.

When it is considered that a very large percentage of the transfers from rail to steamers in this port takes place in that trade which this section accommodates, it will be seen that this City has already gone far towards solving the question of cheap terminal facilities for the transfer of merchandise.

The importance, in this view, of the improvements already made is vastly out of proportion to the mere extent of territory so improved.

Tracks have already been laid to the pier of the White Star Line, and arrangements are being made to connect all the piers in this district with rail communication.

Repairs.—The Department has made a great number of repairs to the piers and bulkheads owned by the City during the year, the detailed accounts of which will be found in the Engineer's Report.

Floating Property.—During the past year the Department has done most of its dredging by contract, and has accordingly laid up its dredging plant.

We have sold some of this, as the opportunity has offered. Full information will be found in the accompanying Report of the Engineer. The remaining floating property is in good condition.

Dredging.—The Department has dredged 221,993 cubic yards of mud, and 10,426 cubic yards of crib work during the year.

Surveys.—A great number of valuable surveys and maps have been made during the year.

Some idea of the amount of work of this kind can be formed when it is stated that careful surveys for the purpose of preparing maps have been made on about 14,000 feet of the water front at various points on the North, East and Harlem Rivers.

Soundings in 200 slips have also been made.

The details of the work accomplished will be found in the accompanying Report of the Engineer-in-Chief.

IV.—Revenues, Expenses, &c.

The expenses of the Department during the past year are for Construction, $455,159.88, and for General Expenses, $31,774.81, making a total of $486,934.69.

The Construction expenses include the building of the new piers and bulkhead wall; the maintenance and repair of the old piers and bulkheads; dredging, and the salaries of the Commissioners and Engineer force.

The revenues of the Department which have accrued entirely during the past year, have amounted to $710,-680.06.

The revenues have thus exceeded the entire expenditures by $223,745.37.

Thus this Department, instead of increasing the public debt, as many even now suppose, is materially reducing it year by year.

It should not be lost sight of that nearly all the expenditures are for the building of a new system of piers and bulkhead, and for the development of the property.

The return in the way of increased income for the future, by reason of these expenditures, is equivalent to probably fifteen per cent. on the whole expenditure of the Department.

From the knowledge of the Commissioners as to the property, the improvements being made, and the leases about to be made, they feel justified in making the confident assertion that the revenues of this Department will, in a comparatively short time, reach the sum of one million dollars annually.

The statement of the revenues and disbursements accompanying this report is believed to be much more full than any heretofore usually presented.

A new system of keeping the books of the Department is being put in operation, which the Commissioners feel confident will render it perfectly simple and easy for any

citizen to ascertain fully all that he may desire to know as to its transactions.

Our year ends by statute on the 30th of April. The quarter's rent has then accrued, but is not payable until the next day—May 1st. It has been thought desirable that the report for the year should show the rents actually earned in that year. We have, therefore, charged this rent as having accrued. The report, therefore, must show one quarter's rent uncollected.

Another reason for the large amount of uncollected rents on the 30th April, 1878, is that the former bookkeeper of the Department was absent by reason of sickness much of the time for the first months of the year. This delayed somewhat the collection of rents.

A very large proportion of the amounts standing as uncollected on the 30th April has since been collected and paid into the Sinking Fund, as our statement shows. The balance will, we think, soon be paid.

V.—Policy of the Department.

The Department is now completing the improvements on the new plan in the section between Canal and West Eleventh streets.

This entire section will soon be substantially completed.

The Department has entered on the improvement of the section between Warren and Canal streets.

In this section most of the property belongs to the City, and the leases are about expiring, giving the City the right to make the improvement.

Arrangements have already been made with some of the occupants for improvement, under conditions which will give the City a very large return on their cost—on long leases—and negotiations are about being concluded with others equally favorable. This section thus presents a field for the operations of this Department where an opportunity is offered to very greatly benefit the occupant, by immensely increasing commercial facilities, and, at the same time, to greatly increase the City's revenues by the expenditure.

It has often been made a matter of complaint that the rents charged for wharf property in this City were so high as seriously to retard the growth of commerce.

We are often referred to competing cities, and to the fact that their rents are merely nominal.

The facts, however, are, that the only places in this City where rents are high are in a comparatively small portion of it, so desirable by reason of proximity to the great business centres that the competition to secure the locality is very great.

The places where the cheap rents in the other cities are to be found are comparatively remote from their business centres. The reason why steamships in those cities are willing to go to places so remote from the

business centres is that in those cities almost the whole business of the lines is a through business. The purely local business is so inconsiderable a portion of the whole that the only need is to locate at a railroad terminus, even where, as in some cases, this is wholly outside the city.

Of course in such places rents will be cheap. In this City, however, the local business is so valuable that each line insists on being convenient to it, and thus the prices in such localities are raised. Rents in this City are very cheap in places not as near the great centres. It is safe to say they are as cheap here as anywhere, provided people are willing to go as far away from the centres here as they do in the other cities where cheap rents are found.

This Department, in order to meet the want for cheaper rents, if it is real, is about developing some of its up-town water property. We shall thus be able to furnish the finest piers, and in great numbers if they are needed, at much cheaper rents than those now obtaining for the down-town property.

We are to improve this property by building what may be in one sense termed a bulkhead wall, but a very inexpensive one, cheaper in fact than good crib-work bulkhead can be built in the same place, and in every respect very much better. We think this will be admitted even by the staunchest advocate of crib-work.

As none of this work is now being done, it is not neces-

sary to describe it in detail. Reference is only made here to it to show that the Department is about to develop this up-town property in an inexpensive manner.

The piers in this locality will be built as fast as any demand arises.

The policy of the Department is to carry on all our improvements as rapidly as there is really any business demand.

We think this a much healthier method than the spending large amounts of money in anticipation of a demand.

We believe that our improvements can be carried on as rapidly as a sound business prudence would dictate, without the necessity for spending in so doing in any year a sum nearly equal to the annual rentals from the property.

Our commercial facilties would thus be increasing as fast as required. Our property would be in process of development, rendering it immensely more valuable, and, at the same time, the yearly burdens of the City would be sensibly diminished, and all from the annual rentals from this property.

All our work, where it can be advantageously so done, is being done by contract.

THIRD.

In compliance with the third provision of the law, as above cited, the following information is submitted :

I.—As to Orders and Rules made by the Board.

The Board has adopted no additional Orders or Rules during the year ending April 30th, 1878.

II.—Description of the Contracts made by the Board.

With John A. Bouker, awarded May 9th, 1877, for furnishing small cobble and rip-rap stone. Estimated expense of contract, $23,500; dated July 23d, 1877; expiration, December 27th, 1877.

With Chas. A. Harrington, awarded May 9th, 1877, for furnishing broken stone. Estimated expense of contract, $6,048; dated July 21st, 1877; expiration, December 27th, 1877.

With Michael Ryan, awarded May 9th, 1877, for furnishing sand. Estimated expense of contract, $1,044; dated July 31st, 1877: expiration, December 27th, 1877.

With the Morris & Cumings Dredging Co., awarded July 17th, 1877, for dredging slip between Piers, New 45, and New 46, North river. Estimated expense of contract, $1,800; dated July 28th, 1877; expiration, August 28th, 1877.

With I. Eugene White, awarded August 17th, 1877, for removing part of Pier, Old 46, North river, and building on site thereof Pier, New 38, North river. Estimated expense of contract $30,765; dated August 29th, 1877;

expiration, January 19th, 1878, or at a date thereafter, as provided.

With John M. C. Scully, awarded January 9th, 1878, for furnishing small cobble, rip-rap and broken stone. Estimated expense of contract, $39,350; dated January 21st, 1878; expiration December 27th, 1878.

With Michael Ryan, awarded January 9th, 1878, for furnishing sand. Estimated expense of contract, $780; dated March 13th, 1878; expiration, December 27th, 1878.

With Moses Engle, awarded February 20th, 1878, for repairing piers at Thirtieth, Thirty-fifth, Forty-sixth and Fifty-seventh streets, North river. Estimated expense of contract, $8,690; dated March 9th, 1878; expiration, May 9th, 1878.

With John Hogan, awarded February 27th, 1878, for furnishing granite stones for bulkhead wall. Estimated expense of contract, $10,478.44; dated April 4th, 1878; expiration August, 15th, 1878.

With John Gillies, awarded March 27th, 1878, for building wooden crib pier at Fifty-fourth street, East river. Estimated expense of contract $2,279; dated April 1st, 1878; expiration, April 30th, 1878.

III.—Payments made by the Board.

The Commissioners of Docks have made requisitions upon the Finance Department for payments in satisfac-

tion of liabilities incurred from May 1st, 1877, to August 30th, 1878, amounting in all to the sum of $486,934.69, and herewith submitted, in due form of exhibits, annexed to the Statement of the Revenues and Disbursements of the Department for the year, is a full showing of the payments so made by the Board, and of the purposes and amounts thereof.

IV.—Leases made by the Board.

I.—All leases made during the year, at public sale and otherwise, of wharf property owned by the Corporation, including land under water, and all permits issued by the Board during that period to occupy such property, are shown in the Rent-roll accompanying this report; which fully expresses for what term, at what rent, to whom, and for what property each of said leases was respectively made, and each of said permissions was respectively granted.

It is the intention of the Commissioners to submit in their annual reports hereafter, a rent-roll, exhibiting in detail the income being derived at the end of each fiscal year from all Corporation wharf property occupied under lease or permit from this Department.

The Rent-roll submitted herewith is a complete showing, not only of all leases made during the year, as required by law, but of all leases and permits continuing in force on and after the 1st day of May, 1878.

II.—Consents of the Board have been given in the year to assignment and transfer of the following mentioned leases of wharf property:

December 19th, 1877.—To assignment by Robert C. Walmsley to the Morrisania Steamboat Company, of lease of bulkhead at Fifty-first street, East river.

January 30th, 1878.—To assignment by the North Shore Staten Island Ferry Company, to John H. Starin, of lease of Pier 1, East river.

March 20th, 1878.—To assignment by the Empire Transportation Company to the Pennsylvania Railroad Company, of lease of Pier, Old 38, North river.

April 29th, 1878.—To substitution of the Cunard Steamship Company in place of the Delaware, Lackawanna and Western Railroad Company, in the agreement made April 26th, 1876, to lease, upon completion of the work, Pier, New 48, North river; except use of water on the northerly side thereof.

III.—The Board has granted in the year the following mentioned allowances or reductions from rent upon leases and occupancies of wharf property:

May 1st, 1877.—To Stephen Roberts, for rent erroneously charged to this date for Pier at One Hundred and Twenty-fifth street, Harlem river, lease for which was purchased by him at public sale of March 7th, 1876, but was unexecuted in consequence of said pier being found

to be untenantable, by reason of a rock existing in the slip at the northerly side thereof: $232.50.

May 1st, 1877.—To Delaware, Lackawanna and Western Railroad Company, for rent erroneously charged after May 1st, 1876, for platform at southerly side of Pier, Old 48, North river; new terms for the use of said platform having been made with said company, to take effect from and after that date: $855.33.

May 1st, 1877.—To John D. Tracy, for rent erroneously charged under lease of Pier 60, East river, from and after March 28th, 1877, he having been dispossessed of said premises on that date: $513.81.

May 29th, 1877.—To Knickerbocker Ice Company, for rent remitted under lease of Pier, Old 49, North river, for the time occupied by the Department in constructing the bulkhead wall across the inner end thereof, and in extending the outer end of said pier, in conformity with agreement made with said company on December 2d, 1876: $1,200.

June 6th, 1877.—To Frederick Broege, for berth at the northerly side of pier at Fifty-first street, North river, to be occupied by a free floating bath during the current season, at the rate of $100 per month.

June 28th, 1877.—To David Tracy, for berth at the northerly side of pier at Thirty-seventh street, East river, to be occupied by a free floating bath during the current season, at the rate of $5 per day.

June 28th, 1877.—To David Tracy, for berth at the northerly side of Pier at Bethune street, North river, to be occupied by a free floating bath during the current season : $700.

All of which is respectfully submitted.

JACOB A. WESTERVELT,
H. F. DIMOCK,
JACOB VANDERPOEL,
Commissioners of Docks.

EUGENE T. LYNCH,
Secretary.

STATEMENT

OF

Revenues and Disbursements.

ACCOUNT

WITH

The Mayor, Aldermen and Commonalty,

AND

BALANCE SHEET FOR APRIL 30, 1878.

STATEMENT

Of the Revenues and Disbursements of the Department of Docks for and during the year ending April 30th, 1878.

DOCK AND SLIP RENT.

I.—Revenue:

Amount of rents remaining uncollected on April 30th, 1877, as per report for the year ending on that date, to wit:		
1. Due from Lessees of Corporation wharf property.....	$80,867 08	
2. Due from Occupants of Land under water, the property of the Corporation.....	375 00	
3. Claims for unpaid rents in hands of the Counsel to the Corporation for collection	35,271 25	
		$116,513 33
Carried forward.....		$116,513 33

Statement of the Revenues and Disbursements.—*Continued.*

Brought forward.....	.....		$116,513 33
Amount of rents accrued prior to May 1st, 1877, omitted to be charged at the close of the year ending April 30th, 1877, to wit:			
4. To Lessees of Corporation wharf property.....	$133,009 09		
5. To Occupants of Land under water, the property of the Corporation.....	10,127 77		
		$143,136 86	

(Note.—*A considerable portion of this sum is composed of rents accrued for the quarter ending April 30th, 1877, under such leases as provide for payment at the end of each quarter, and not in advance. In order to show correctly and distinctly the revenue of each fiscal year, it has been deemed advisable to charge the rents for the quarter beginning on February 1st of each year, on the 30th day of April following, instead of on the 1st day of May following, as heretofore practiced.*)

Amounts of rents accrued and charged in and during the year ending April 30th, 1878, to wit:

6. To Lessees of Corporation wharf property.....	$639,692 20		
7. To Occupants of Land under water, the property of the Corporation, covered by wharf improvements erected by permission of the Department.....	41,979 17		
8. Amount of wharfages collected from unleased Corporation wharf property.....	29,008 69		
		710,680 06	
			853,816 92
			$970,330 25

II.—Distribution:

Cash:

Amount of moneys received in and during the year, and deposited with the Chamberlain to the credit of the Commissioners of the Sinking Fund for the redemption of the City debt	$651,214 83	
Carried forward.....	$651,214 83	$970,330 25

Statement of the Revenues and Disbursements.—*Continued.*

Brought forward	$651,214 83		$970,330 25
Deduct the amount included in said moneys, being proceeds from sales of old material in and during the year.....	23,013 78		
	$628,201 05		
Deduct also the amount included in said moneys, of sums received in and during the year at public sales of leases of Corporation wharf property, being deposits made by purchasers as security for the execution on their part of their leases respectively; which leases are to date from and after May 1st, 1878, and which deposits are to be applied as rent first-accruing under such leases as shall be duly completed, or, in default, to become forfeited to the City...	28,421 25		
Leaving this amount deposited as rents and dues from Corporation wharf property (except from that in use under ferry leases not yet transferred from the Comptroller to this Department)..... ..	.....	$599,779 80	

Allowances :

Amount of rents and dues remitted in and during the year to Lessees or Occupants of Corporation wharf property, to wit:			
To Stephen Roberts, for rent erroneously charged to May 1st, 1877, on Pier at One Hundred and Twenty-fifth street, H. R.	$232 50		
To Frederick Broege, for rent remitted, consequent upon the mooring of a Free Floating Bath at Pier at Fifty-first street, N. R., leased by him	435 50		
To Knickerbocker Ice Company, for rent remitted for the time occupied by the Department in constructing the new Bulkhead Wall across the inner end of Pier, old 49, N. R., leased by said company	1,200 00		
To Delaware, Lackawanna and Western Railroad Company, for rent erroneously charged after May 1st, 1876, for platform at south side of Pier, old 48, N. R., a new lease having been entered upon on that date	855 33		
Carried forward	$2,723 33	$599,779 80	$970,330 25

Statement of the Revenues and Disbursements.—*Continued.*

Brought forward.....	$2,723 33	$599,779 80	$970,330 25
To John D. Tracy, for rent erroneously charged on Pier 60, E. R.; the Department having repossessed the premises on March 28th, 1877.....	513 81		
To David Tracy, for rent remitted consequent upon the mooring of a Free Floating Bath at each of the following named premises, leased by him, to wit:			
At Pier at Thirty-seventh st., E. R.. ... $655 00			
At Pier at Bethune st., N. R..... 700 00	1,355 00		
		4,592 14	
Counsel to the Corporation:			
Amount of claims for unpaid rents and dues for Corporation wharf property transferred to him, in and during the year, for collection (including those placed in his hands prior to May 1st, 1877, amounting to $35,271.25).....		84,716 56	
			689,088 50

III.—Balance:

1. Amount of moneys received by this Department and remaining undeposited with the Chamberlain on April 30th, 1878	.....	$13,939 16
2. Amount of rents and dues charged to Lessees of Corporation wharf property and remaining uncollected on April 30th, 1878	.....	248,970 65
(*Of which amount the sum of* $110,870.15 *is not payable until May* 1*st*, 1878.)		
3. Amount of rents and dues charged to Occupants of Land under water, the property of the Corporation, and remaining uncollected on April 30th, 1878	.....	18,331 94
(*Of which amount the sum of* $9,150 *is not payable until May* 1*st*, 1878.)		
(Note.—*Of this whole amount there has been deposited with the Chamberlain, since May* 1*st*, 1878, *the sum of*	$198,896 09	
And since that date the Board has directed to be placed in		
Carried forward	$198,896 09	$281,241 75

STATEMENT OF THE REVENUES AND DISBURSEMENTS.—*Continued.*

Brought forward	$198,896 09	$281,241 75	
the hands of the Counsel to the Corporation for collection, the sum of	41,828 58		
Leaving unpaid at the date of the publication of this report, the sum of	40,517 08)		
			$281,241 75

DOCK BONDS.

1. Amount of Requisitions made by this Department upon the Commissioners of the Sinking Fund prior to May 1st. 1877, for the issue of "Dock Bonds of the City of New York"	$5,650,000 00		
2. Amount of such requisitions made in and during the year ending April 30th, 1878	500,000 00		
		$6,150,000 00	
Less the amount in such requisitions last mentioned, upon which the said Commissioners of the Sinking Fund gave no direction for the issue of bonds during the year		100,000 00	

3. Making the total amount of "Dock Bonds of the City of New York," directed by the Commissioners of the Sinking Fund to be issued for the uses and purposes of the Department of Docks, from the date of its organization in May, 1870, to April 30th, 1878, to be the sum of...			$6,050,000 00

DOCK FUND.

I.—Revenue:

1. Amount of proceeds of Dock Bonds approximated as being in the hands of the Comptroller on May 1st, 1877, for the uses and purposes of this Department	$95,241 74		
Amount of proceeds of Dock Bonds directed by the Commissioners of the Sinking Fund to be issued by the Comptroller, in and during the year ending April 30th, 1878,	400,000 00		
Amount of premium derived on sales of Dock Bonds; stated to have been received by the Comptroller previously to April 30th, 1878.....	426 00		
		$495,667 74	
Carried forward.....		$495,667 74	

STATEMENT OF THE REVENUES AND DISBURSEMENTS.—*Continued.*

Brought forward.....	$495,667 74	
2. Amount of moneys received in and during the year by this Department and deposited with the Chamberlain to the credit of the Commissioners of the Sinking Fund, for the uses and purposes of the Department; being reimbursement for the cost of repairs to Wharf property not owned by the Corporation, and for privilege of dumping material for the filling-in inside of the new Bulkhead Wall.....	3,297 50	
		$498,965 24

II.—EXPENDITURE:

Amount of bills and claims audited in and during the year ending April 30th, 1878, and transmitted to the Finance Department for payment, being for materials and supplies furnished and for services rendered to this Department, to wit:

1. *For Construction:*

As per annexed Schedule B.:

Advertising, for proposals, &c.	$407 20	
Cement	18,968 71	
Coal, for Floating property, &c.	4,745 55	
Contracts for building Piers, &c.	65,899 00	
Drawing materials and surveying instruments	420 00	
Dredging	38,354 61	
General expenditures, including plumbing and gas-fitting on new piers, fire insurance on sheds, storage and taxes on piles, &c.	7,662 68	
Granite, rip-rap, broken and cobble-stone, and sand	49,705 82	
Iron and steel	432 57	
Lumber and piles	42,186 64	
Carried forward	$228,782 78	$498,965 24

Statement of the Revenues and Disbursements.—*Continued.*

Brought forward		$228,782 78		$498,965 24
Maintenance of floating Derricks, Tugs, Dredges, Scows, and Pile-drivers, and of Department Yards		8,341 51		
Stationery, and printing of contracts, &c.		992 28		
Supplies for Tugs, Dredges, Pile-drivers, &c., Tools and repairing		5,841 47		
			$243,958 04	
As per annexed Schedule C.:				
Salaries of the Commissioners of Docks		$11,850 81		
Salaries of the Office of the Engineer-in-Chief,		25,005 72		
			36,856 53	
As per annexed Schedule D.:				
Salaries of Superintendents of Construction		6,250 00		
Pay-rolls:				
Surveying force	$4,609 45			
Captains, engineers, crews and watchmen on floating property	23,111 07			

Masons, dock-builders and laborers	98,437 61				
Blacksmiths, stone-cutters and laborers, in Department Yards	18,368 76				
		144,526 89			
			150,776 89		
				$431,591 46	

2. *For General Repairs:*

As per annexed Schedule E.:					
Dredging		$1,806 57			
Lumber		6,905 25			
Repairs to Pier 42, E. R.		666 66			
Supplies and tools		656 75			
			$10,035 23		
Pay-rolls of dock-builders, laborers and watchmen, as per annexed Schedule F			13,533 19		
				23,568 42	
Carried forward				$455,159 88	$498,965 24

Statement of the Revenues and Disbursements.—*Continued.*

Brought forward			$455,159 88	$498,965 24
3. *For Annual Expenses:*				
As per annexed Schedule G.;				
Advertising, public sales, &c	$338 46			
General expenses, office rent, &c	8,305 01			
Sationery and printing, Commissioners' office	1,058 70			
		$9,702 17		
Salaries of officers and appointees, as per annexed Schedule II		21,817 40		
Pay-rolls of carpenters and laborers, making alterations in Department Offices, as per annexed Schedule I		255 24		
			31,774 81	
				486,934 69
III.—Balance:				
Amount of proceeds of Dock Bonds presumed to be in the hands of the Comptroller on April 30th, 1878, available for future uses and purposes of this Department				$12,030 55

(NOTE.—*No account having heretofore been kept by this Department of its Dock Fund, this accounting, in as far as relates to moneys in the hands of the Comptroller, is based upon information from the Comptroller's Office. The amount of warrants outstanding, drawn against the Dock Fund, on the date above mentioned, being unascertainable at the date of the publication of this report, such warrants are here unconsidered.*)[1]

NEW YORK, November 23d, 1878.

Respectfully submitted to the Board.

WM. M. WHITNEY,
Chief Clerk.

Approved and adopted:

JACOB A. WESTERVELT,
H. F. DIMOCK,
JACOB VANDERPOEL,
Commissioners of Docks.

THE MAYOR, ALDERMEN AND COMMONALTY
with the BOARD OF THE DEPART
the year ending

DR.

To deposits of money with the Chamberlain.		$654,512 33
To bills and claims audited for materials and supplies furnished, and for services rendered, to wit:		
On Construction account..	$431,591 46	
On General Repairs account.	23,568 42	
On Annual Expense account.	31,774 81	
		486,934 69
To balance carried forward.....		478,988 86
		$1,620,435 88

(NOTE.—*Of the amount of Unpaid Rents, the sum of* $120,020.15 *was not payable until May* 1*st*, 1878 ; *and at the date of the publication of this Report, the whole of said amount of Unpaid Rents has been deposited with the Chamberlain, except the sum of* $40,517.08 *and the amount of rents transferred to the Counsel to the Corporation, for collection.*)

NEW YORK, November 23d, 1878.

WM. M. WHITNEY,
Chief Clerk.

OF THE CITY OF NEW YORK in account MENT OF DOCKS for and during April 30th, 1878.

Cr.

By balance April 30th, 1877, as per report for the year ending at that date; to wit:		
Unpaid rents	$116,513 33	
Contingent fund	1,000 00	
		$117,513 33
By balance of proceeds of Dock Bonds, unused May 1st, 1877		95,241 74
By requisitions for Dock Bonds		500,000 00
By premium on Dock Bonds sold		426 00
By permits for privilege of dumping		175 50
By proceeds of sales of old material		23,013 78
By reimbursement for repairs made for private owners of wharves		3,122 00
By deposits with the Chamberlain to the credit of the Dock Fund		3,297 50
By Dock and Slip rent		849,224 78
By Rent advances		28,421 25
		$1,620,435 88

By balance April 30th, 1878, to wit:		
Unpaid rents (*See Note opposite*)	$365,958 31	
Dock funds	112,030 55	
Contingent fund	1,000 00	
		$478,988 86

JACOB A. WESTERVELT,
H. F. DIMOCK,
JACOB VANDERPOEL,

Commissioners composing the Board of the Department of Docks.

BALANCE SHEET.

April 30th, 1878.

Dr.			Cr.		
Ledger Fol.			*Ledger Fol.*		
80	Jacob A. Westervelt, *Treasurer pro tem*	$3,448 80	3	The Mayor, Aldermen and Commonalty of the City of New York	$478,988 86
81	Jacob Vanderpoel, *Treasurer*	11,490 36			
284 to 419	Sundry Lessees, (*As per Schedule A.*)	267,302 59			
90	Counsel to the Corporation,	84,716 56			
92	Dock Fund	12,030 55			
88	Commissioners of the Sinking Fund	100,000 00			
		$478,988 86			$478,988 86

New York, November 23d, 1878.

WM. M. WHITNEY,
Chief Clerk.

SCHEDULE A.

Ledger Balances, April 30th, 1878.

(*Trial Balance.*)

Dr.	Fol.		Cr.
	3	The Mayor, Aldermen and Commonalty	$631,938 99
	48	Sales of old material	23,013 78
	49	Repairs for private owners	3,122 00
	51	Privilege of dumping	175 50
$654,512 33	53	J. Nelson Tappan, Chamberlain	
431,591 46	64	Construction	
23,568 42	65	General Repairs	
31,774 81	67	Annual Expense	
3,448 80	80	Jacob A. Westervelt, *Treasurer pro tem*	
11,490 36	81	Jacob Vanderpoel, *Treasurer*	
	84	Rent advances	28,421 25
100,000 00	88	Commissioners of the Sinking Fund	
84,716 56	90	Counsel to the Corporation	
8,733 05	92	Dock Fund	
	94	Leased wharves	848,976 23
	96	Land under water	52,481 94
	98	Unleased wharves	29,008 69
267,302 59	284 to 419	Sundry Lessees: (*This amount being wholly composed of accrued Rents charged to* 103 *tenants, of which amount* $120,020.15 *is not payable until May* 1*st*, 1878.)	
$1,617,138 38			$1,617,138 38

Schedule B.

Bills and Claims Audited on Construction Account.

Advertising.		
Commercial Advertiser Association	$8 00	
N. Y. Tribune	216 70	
Noah's Sunday Times	9 60	
N. Y. Herald	30 80	
N. Y. Staats Zeitung	25 25	
N. Y. Express Company	52 05	
Journal of Commerce	22 40	
The World	42 40	
		$407 20
Cement.		
Johnson & Wilson	$17,495 30	
S. L. Merchant & Co	1,473 41	
		18,968 71
Coal for Tugs, Pile Drivers, &c.		
Thomas Davies	$86 00	
The Hudson Coal Company	4,659 55	
		4,745 55
Contracts for Building Piers and Platforms.		
T. & A. Walsh	$26,922 00	
Ross & Sanford	612 00	
McIntire Bros	7,600 00	
I. Eugene White	30,765 00	
		65,899 00
Drawing Materials and Surveying Instruments.		
Keuffel & Esser	$68 80	
A. S. Barnes & Co	306 20	
Stackpole & Bro	45 00	
		420 00
Dredging.		
Morris & Cumings Dredging Company	$36,882 24	
Union Dredging Company	1,472 37	
		38,354 61
Carried forward		$128,795 07

Brought forward.....		$128,795 07

General Expenses, including Plumbing and Gas-fitting on New Piers, Insurance on Sheds, Storage of Piles, Taxes, &c.

Bradley, Kurtz & Co.....	$466 25	
Moses S. Barrett	53 53	
Phelps, Doremus & Corbett.....	27 50	
James O'Brien.....	111 76	
J. C. Moore.....	1,130 10	
Knickerbocker Ice Company.....	23 05	
Wm. Rainer.....	33 20	
N. Y. Towing & Transportation Line.....	111 00	
Donegan & Reilly.....	66 43	
Ætna Insurance Company.....	53 14	
Atlantic " "	26 57	
Adriatic " "	26 57	
Broadway " "	53 14	
Columbia " "	26 57	
Commercial Fire Insurance Company.....	26 57	
Greenwich " "	26 57	
Gebhard Fire " "	26 57	
Guaranty Fire " "	106 26	
Guardian Fire " "	26 57	
Hoffman Fire " "	26 57	
Lorillard " "	79 70	
Manhattan Fire " "	53 13	
N. Y. Produce Ex. " "	26 57	
Relief Fire " "	53 13	
Resolute Fire " "	26 57	
Westchester Fire " "	26 57	
Stevens' Institute of Technology.....	73 40	
Jacob Euler & Sons.....	350 00	
Marshall Lefferts.....	19 17	
M. Thompson.....	56 15	
Thomas C. Townsend.....	1,556 74	
J. B. & J. M. Cornell.....	257 86	
Conrad Wittich.....	180 00	
N. Y. Roofing Company.....	314 00	
T. W. Armstrong.....	10 75	
C. H. DeLamater & Co	223 92	
F. A. Cairnes.....	40 00	
Chas. Boetteger.....	1,031 00	
City of Hoboken, N. J.....	41 57	
Boyce & Fairfield.....	237 84	
American Clock Company.....	2 50	
Henry Pym.....	8 00	
Carried forward.....	$7,116 49	$128,795 07

Brought forward	$7,116 49	$128,795 07
American Diamond Rock Boring Company	332 00	
Incidentals	214 19	
		7,662 68

GRANITE, RIP-RAP, BROKEN AND COBBLE STONE AND SAND.

John A. Bouker	$25,568 75	
Chas. A. Harrington	7,233 02	
Patrick Brady	487 43	
Davis Tillson	9,735 05	
Michael Ryan	742 40	
Bodwell Granite Company	499 76	
John M. C. Scully	5,439 41	
		49,705 82

IRON AND STEEL.

Blake & Mahony	$43 75	
Pierson & Co	329 56	
Egleston Bros. & Co	59 26	
		432 57

LUMBER AND PILES.

Bell Brothers	1,971 34	
Drew & Bucki	6,354 78	
Watrous & Willson	2,897 92	
H. W. Gause	103 68	
J. C. Moore	2,041 94	
A. Ammermann	218 29	
Beard & Kimpland	17,537 80	
John Lawrence	2,857 74	
Thomas J. Crombie	2,482 45	
O. F. Potter	2,659 52	
Chas. B. Carman	1,102 00	
J. W. & W. F. Smith	474 25	
James D. Leary	1,079 34	
J. Disosway & Co	34 07	
E. W. McClave & Co	135 85	
Schuyler, Miller & Co	235 67	
		42,186 64

MAINTENANCE OF FLOATING DERRICKS, TUGS, DREDGES, SCOWS, PILE DRIVERS AND BORING MACHINE, AND OF DEPARTMENT YARDS.

W. B. Ferguson	$213 93	
Handren & Ripley	2,286 89	
Carried forward	$2,500 82	$228,782 78

Brought forward	$2,500 82	$228,782 78
Henry Gilbert	200 00	
A. Kepplemann	33 35	
N. Y. Belting and Packing Company	24 27	
Screw Dock Company	140 50	
Cook & Pulver	12 00	
J. H. Calkin, Agt	15 75	
L. Katzenstein	36 00	
Guardian Fire Insurance Company	30 00	
Korillard " "	60 00	
Relief Fire " "	30 00	
Ready Roofing Company	248 56	
Wm. McDonagh & Co	2,670 77	
McArthur & Co	5 10	
Jas. M. Shaw & Co	66 90	
Jenkins, Smith & Co	666 25	
Upton Jones	5 40	
Thos. C. Townsend	956 85	
Giroud & Sutton	5 50	
N. Y. Roofing Company	132 81	
James W. Marshall	110 68	
American Fire Insurance Company	30 00	
Manufacturers' and Builders' Fire Ins. Co	30 00	
Pacific Fire " "	30 00	
Mechanics' and Traders' Fire " "	30 00	
Continental " "	30 00	
Merchants' " "	30 00	
Mercantile Fire Insurance Company	30 00	
Ridgewood " "	30 00	
Clinton Fire " "	30 00	
Lenox Fire " "	30 00	
Citizens' " "	30 00	
J. S. Mundy	60 00	
		8,341 51

STATIONERY AND PRINTING.

John S. Hulin	$218 08	
Wm. C. Bryant & Co	485 50	
A. S. Barnes & Co	228 70	
Jos. Laing	60 00	
		992 28

SUPPLIES FOR TUGS, DREDGES, PILE DRIVERS, ETC., TOOLS AND REPAIRING.

Josiah Macy's Sons	$79 48	
Paul C. Coffin & Co	1,496 06	
Carried forward	$1,575 54	$238,116 57

Brought forward	$1,575 54	$238,116 57
Bryant & Co	230 00	
Bell & Hine	57 60	
Goodyear's I. R. Glove Manufacturing Co.	74 50	
John Jewett & Sons	105 00	
Prince's Metallic Paint Company	15 00	
C. T. Raynolds & Co	18 75	
Frederick Habirshaw	7 50	
Wm. Young	1,568 61	
F. H. Evans	126 00	
John Moore's Sons	40 50	
Hodgman & Co	388 30	
Patterson Bros	680 38	
Thos. C. Townsend	595 26	
Lawrence Waterbury & Co	221 20	
Richard Dudgeon	10 50	
Downer Kerosene Oil Company	29 83	
Nelson Tool Works	29 50	
John Bryant & Co	67 50	
		5,841 47
		$243,958 04

SCHEDULE C.

Salaries Audited on Construction Account.

Commissioners of Docks.

Salem H. Wales, President	$52 41	
Jacob A. Westervelt, President	5,822 59	
Henry F. Dimock	3,000 00	
Jacob Vanderpoel	2,975 81	
		$11,850 81

Office of Engineer-in-Chief.

G. S. Greene, Jr., Engineer-in-Chief	$6,000 00	
Willard A. Nichols, First Assistant-Engineer	3,600 00	
Wm. W. Maclay, Assistant-Engineer	2,500 00	
Charlton B. Kid, "	2,500 00	
David T. Keiller, Draughtsman	1,800 00	
Thos. J. Long, "	1,200 00	
Moses S. Barrett, Surveyor	1,448 71	
Carried forward	$19,048 71	$11,850 81

Brought forward	$19,048 71	$11,850 81
Chas. W. Raymond, Leveler	872 01	
John H. Staats, Transitman	1,000 00	
James O'Brien, Roundsman	1,200 00	
Robt. M. Kid, Draughtsman	846 00	
Wm. Livingstone, Draughtsman	939 00	
John K. Murphy, Copyist	452 00	
Frederick Lange, Messenger	648 00	
		25,005 72
		$36,856 53

SCHEDULE D.

Salaries and Pay-rolls Audited on Construction Account.

Salaries of Superintendents of Construction.

Thos. Murphy, Superintendent Masonry Construction	$2,250 00
James Guthrie, Superintendent Construction	2,500 00
Patrick White, Foreman Dockbuilder	1,500 00
	$6,250 00

Pay-Rolls of Surveying Force.

For two weeks ending April 28th, 1877,	$156 00	
" " " May 12th, "	162 00	
" " " " 26th, "	119 00	
" " " June 9th, "	195 00	
" " " " 23d, "	219 00	
" " " July 7th, "	132 00	
" " " " 21st, "	138 00	
" " " Aug. 4th, "	138 00	
" " " " 18th, "	145 00	
" " " Sept. 1st, "	138 00	
" " " " 15th, "	145 60	
" " " " 29th, "	162 00	
" " " Oct. 13th, "	184 00	
" " " " 27th, "	201 50	
" " " Nov. 10th, "	151 00	
" " " " 24th, "	173 50	
Carried forward	$2,559 60	$6,250 00

Brought forward.....		$2,559 60			$6,250 00
For two weeks ending Dec.	8th, 1877,	170 50			
" " " "	22d, "	163 50			
" " " Jany.	5th, 1878,	187 50			
" " " "	19th, "	175 25			
" " " Feby.	2d, "	193 00			
" " " "	16th, "	210 50			
" " " Mareh	2d, "	191 00			
" " " "	16th, "	208 00			
" " " "	30th, "	157 00			
" " " April	13th, "	168 90			
" " " "	27th, "	224 70			
			4,609 45		

Pay-Rolls of Captains, Engineers, Crews and Watchmen on Floating Property.

For month of May,	1877.....	$2,224 70			
" " June,	"	2,205 18			
" " July,	"	680 58			
" " August,	"	658 40			
" " Sept.,	"	389 00			
" " October,	"	389 00			
" " Nov.,	"	389 00			
" " Dec.,	"	389 00			
" " Jany.,	1878.....	389 00			
" " Feby.,	"	665 76			
" " March,	"	587 36			
" " April,	"	385 67			
			9,352 65		
For two weeks ending April	28th, 1877,	$818 63			
" " " May	12th, "	777 42			
" " " "	26th, "	765 01			
" " " June	9th, "	771 64			
" " " "	23d, "	679 37			
" " " July	7th, "	361 63			
" " " "	21st, "	450 53			
" " " Aug.	4th, "	439 08			
" " " "	18th, "	446 11			
" " " Sept.	1st, "	443 48			
" " " "	15th, "	428 92			
" " " "	29th, "	434 19			
" " " Oct.	13th, "	406 17			
" " " "	27th, "	448 06			
" " " Nov.	10th, "	412 44			
Carried forward.....		$8,082 68	$13,962 10		$6,250 00

Brought forward.....	$8,082 68	$13,962 10	$6,250 00
For two weeks ending Nov. 24th, 1877.	400 91		
" " " Dec. 8th, "	409 71		
" " " " 22d, "	447 15		
" " " Jany. 5th, 1878.	438 03		
" " " " 19th, "	403 55		
" " " Feby. 2d, "	515 70		
" " " " 16th, "	539 78		
" " " March 2d, "	487 73		
" " " " 16th, "	529 72		
" " " " 30th, "	477 39		
" " " April 13th, "	505 36		
" " " " 27th, "	520 71		
		13,758 42	

PAY-ROLLS OF MASONS, DOCKBUILDERS AND LABORERS.

For two weeks ending April 28th, 1877,	$4,257 48		
" " " May 12th, "	5,072 80		
" " " " 26th, "	4,320 11		
" " " June 9th, "	4,539 79		
" " " " 23d, "	4,377 40		
" " " July 7th, "	4,677 35		
" " " " 21st, "	4,091 91		
" " " Aug. 4th, "	2,959 46		
" " " " 18th, "	3,376 63		
" " " Sept. 1st, "	3,713 65		
" " " " 15th, "	3,164 14		
" " " " 29th, "	3,661 61		
" " " Oct. 13th, "	3,750 49		
" " " " 27th, "	3,954 89		
" " " Nov. 10th, "	3,609 09		
" " " " 24th, "	3,598 51		
" " " Dec. 8th, "	2,906 23		
" " " " 22d, "	3,232 12		
" " " Jany. 5th, 1878,	2,486 86		
" " " " 19th, "	3,203 05		
" " " Feby. 2d, "	3,427 34		
" " " " 16th, "	3,075 55		
" " " March 2d, "	2,148 64		
" " " " 16th, "	3,005 08		
" " " " 30th, "	3,696 03		
" " " April 13th, "	4,055 87		
" " " " 27th, "	4,075 53		
		98,437 61	
Carried forward.....		$126,158 13	$6,250 00

Brought forward.....	$126,158 13	$6,250 00

PAY-ROLLS OF BLACKSMITHS, STONE-CUTTERS AND LABORERS IN DEPARTMENT YARDS.

For two weeks ending	April	28th,	1877,	$617 55		
" " "	May	12th.	"	559 68		
" " "	"	26th,	"	626 40		
" " "	June	9th,	"	568 02		
" " "	"	23d,	"	500 90		
" " "	July	7th.	"	438 69		
" " "	"	21st,	"	492 29		
" " "	Aug.	4th,	"	518 69		
" " "	"	18th,	"	509 80		
" " "	Sept.	1st,	"	427 76		
" " "	"	15th,	"	1,239 59		
" " "	"	29th,	"	1,058 46		
" " "	Oct.	13th,	"	1,070 57		
" " "	"	27th,	"	1,543 72		
" " "	Nov.	10th,	"	1,346 80		
" " "	"	24th,	"	1,560 80		
" " "	Dec.	8th,	"	1,088 53		
" " "	"	22d,	"	983 77		
" " "	Jany.	5th,	1878,	389 95		
" " "	"	19th,	"	349 35		
" " "	Feby.	2d,	"	324 05		
" " "	"	16th,	"	320 70		
" " "	March	2d,	"	376 78		
" " "	"	16th,	"	337 90		
" " "	"	30th,	"	379 40		
" " "	April	13th,	"	352 88		
" " "	"	27th,	"	385 73		
					18,368 76	
						144,526 89
						$150,776 89

Schedule E.

BILLS AND CLAIMS AUDITED ON GENERAL REPAIRS ACCOUNT.

DREDGING.

Morris & Cumings Dredging Co.....	$1,435 20	
Union Dredging Co.....	371 37	
		$1,806 57
Carried forward.....		$1,806 57

Brought forward.....		$1,806 57
LUMBER.		
Watrous & Willson.....	322 31	
W. B. Ferguson.....	24 00	
Thos. J. Crombie.....	5,684 88	
Jno. Lawrence.....	272 93	
Bell Bros.	110 28	
Drew & Bucki	54 85	
Schuyler, Miller & Co.....	136 00	
J. C. Moore.....	300 00	
		6,905 25
REPAIRS TO PIER 42, E. R.		
Floating Dry Dock Co.....		666 66
SUPPLIES & TOOLS.		
Patterson Bros.....	465 00	
Wm. Young.....	15 00	
Jno. C. Jacobs.....	176 75	
		656 75
		$10,035 23

Schedule F.

PAY-ROLLS AUDITED ON GENERAL REPAIRS ACCOUNT.

OF DOCK-BUILDERS, LABORERS AND WATCHMEN.

For two Weeks ending April 28th, 1877	126 73
" " " May 12th, "	174 37
" " " " 26th, "	353 40
" " " June 9th, "	131 84
" " " " 23d, "	381 25
" " " July 7th, "	298 07
" " " " 21st, "	94 13
" " " Aug. 4th, "	283 70
" " " " 18th, "	404 30
" " " Sept. 1st, "	280 46
" " " " 15th, "	326 30
" " " " 29th, "	310 34
" " " Oct. 13th, "	204 24
" " " " 27th, "	437 72
Carried forward.....	$3,806 85

Brought forward.....	$3,806 85	
For two weeks ending Nov. 10th, 1877.....	383 02	
" " " " 24th, "	851 47	
" " " Dec. 8th, "	728 72	
" " " " 22d, "	376 83	
" " " Jan. 5th, 1878	358 20	
" " " " 19th, "	506 07	
" " " Feb'y, 2d, "	215 67	
" " " " 16th, "	754 45	
" " " March 2d, " ...	1,550 61	
" " " " 16th, "	687 52	
" " " " 30th, "	1,180 45	
" " " April 13th, " ...	1,202 08	
" " " " 27th, " ...	931 25	
		$13,533 19

Schedule G.

Bills and Claims Audited on Annual Expense Account.

Advertising,

Commercial Advertiser.....	$8 00	
N. Y. Times.....	43 40	
N. Y. Tribune.....	126 00	
N. Y. News Pubiishing Co	18 90	
N. Y. Staats-Zeitung.....	5 00	
N. Y. Express Co.....	19 80	
Journal of Commerce.....	32 76	
The World.....	10 20	
N. Y. Herald.....	74 40	
		$338 46

General Expenses, Office Rent, &c.

Sanders Wilson.....	$35 00	
James Rodgers.....	56 25	
Knickerbocker Ice Co.....	37 42	
A. A. Knudson.....	40 00	
James Watson.....	40 68	
L. G. Goulding & Co.....	5 00	
A. T. Stewart & Co.....	13 23	
Thos. C. Townsend.....	155 19	
Carried forward.....	$382 77	$338 46

Brought forward	$382 77	$338 46
Manhattan Real Estate Association	6,450 00	
Conrad Wittich	46 15	
Baker, Voorhis & Co	2 75	
Incidentals, Cleaning Offices, &c.	1,053 17	
Wm. J, Farrin	9 36	
Jno. J. McCarthy	50 00	
H. A. Althaus	110 00	
J. S. Peck & Co	9 00	
Counting House Monitor	6 00	
W. & J. Sloane	68 78	
Hojer & Graham	4 00	
Shipping & Commercial List	10 00	
S. Bergman & Co	15 00	
Journal of Commerce	14 00	
Jno. Lawrence	60 08	
Patterson Bros	13 95	
		8,305 01
Stationery and Printing.		
John S. Hulin	$598 35	
Wm. C. Bryant & Co	249 52	
A. S. Barnes & Co	161 33	
C. C. & A. L. Chamberlain	49 50	
		1,058 70
		$9,702 17

Schedule H.

Salaries Audited on Annual Expense Account.

Officers and Appointees.	
Eugene T. Lynch, Secretary	$3,500 00
Wm. W. Burnham, Bookkeeper	3,000 00
Wm. M. Whitney, Chief Clerk	2,500 00
John M. Smith, Superintendent	1,500 00
James Fitzpatrick, "	1,500 00
Wm. McConkey, "	1,500 00
John Butler, "	1,500 00
Joseph T. Kelly, Assistant Bookkeeper	1,800 00
Otho H. Klemm, Clerk to Auditing Committee	450 00
Wm. M. Purdy, Temporary Clerk	220 00
Edward Dickel, "	875 00
Carried forward	$18,345 00

Brought forward	$18,345 00	
Thomas Early, Messenger	1,000 00	
Eugene Conkling, Office Messenger	703 50	
George S. Hunt, Messenger	521 65	
Amzi Cook, Inspector	426 00	
Hugh Fitzpatrick, Night Watchman	821 25	
		$21,817 40

Schedule I.

Pay-rolls Audited on Annual Expense Account.

Of Carpenters and Laborers.		
For 2 weeks, ending August 4, 1877	$185 81	
" " " " 18, "	69 43	
		$255 24

RENT-ROLL

OF

LEASES AND PERMITS

IN FORCE

ON AND AFTER MAY 1st, 1878.

RENT

SHOWING THE OCCUPANCY OF ALL CORPORATION WHARF PROP DOCKS, ON MAY 1ST, 1878; AND INCLUDING ALL LEASES TERMINATED DURING THE YEAR THEN ENDED.

PROPERTY.	LESSEE OR OCCUPANT.	TERM OF TENANCY.
NORTH RIVER.		
Berth at Pier New 1....	Jarrett & Palmer....	At pleasure of the Board.....
Berth at Pier New 1....	N. Y., Bay Ridge & Jamaica R. R.....	At pleasure of the Board.....
Berth at Pier New 1....	Jarrett & Palmer....	June 1, 1878, to Aug. 31, 1878.
Extension to bulkhead between Piers 3 and 6, and widening Piers 4 and 5.....	Union R. R. & Transportation Co.....	May 1, 1873, to May 1, 1883..
Platforms at bulkheads between Pier 6 and 8..	N. Y. & Baltimore Transportation Line	At pleasure of the Board.....
Pier 13 and north half Pier 12, and bulkhead between.....	Russell Sturgis.....	Aug. 1, 1869, to Aug. 1, 1879..
Extension to Pier 13....	Appleton Sturgis....	Aug. 1, 1873, to Aug. 1, 1879..
South half Pier 14.....	Central R. R. Co. of New Jersey.....	May 1, 1876, to May 1, 1881..
South half Pier 18.....	Associates of the Jersey Co..... ...	May 1, 1876, to May 1, 1886..
Platform between Piers 18 and 19, &c.....	Delaware, Lackawanna & Western R. R. Co.....	May 1, 1878, to 3 mos. notice..
Platform between Piers 18 and 20.....	John H. Starin.....	At pleasure of the Board....
Pier 20 and bulkhead southerly..... ...	Francis MacDonald..	May 1, 1868, to 3 mos. notice..
Extension to Pier 20....	Francis MacDonald..	June 15, 1874, to 3 mos. notice

ROLL;

ERTY UNDER LEASES AND PERMITS OF THE DEPARTMENT OF
SOLD BY PUBLIC SALE AND ALL LEASES AND PERMITS

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
$150 per month..	....	By Resolution May 23, 1877.
5 per day...	..... .	By Resolution July 25, 1877.
.....	$450 per mo..	By Resolution April 24, 1878.
.....	12,500 per ann..	By Resolution April 30, 1873.
.....	300 per ann..	By Resolution January 2, 1878.
.....	14,750 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	750 per ann..	By Resolution June 12, 1873.
....	10,010 per ann..	By Public Sale March 7, 1876.
.....	7,510 per ann..	By Public Sale March 7, 1876.
.....	400 per ann..	By Resolution March 6, 1878.
.....	1,200 per ann..	By Resolutions May 15, 1873, and December 15, 1875.
.....	9,000 per ann..	By The Mayor, &c., lease dated December 6, 1867.
....	2,500 per ann..	By Resolution March 11, 1874.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Bulkhead between Piers 20 and 21.....	Francis MacDonald..	Nov. 1, 1869, to Nov. 1, 1879..
Pier 21...	Francis MacDonald, (Assignee).....	Feb. 1, 1870, to Feb. 1. 1880..
Extension to Pier 21....	Francis MacDonald..	June 15, 1874, to Feb. 1, 1880.
South half Pier 22 and bulkhead adjoining...	Stephens & Condit Transportation Co., (Assignee).....	June 1, 1875, to June 1, 1878..
South half Pier 22 (sometimes named 23), and bulkhead adjoining...	Stephens & Condit Transportation Co.	June 1, 1878, to June 1, 1881..
South half Pier 29.....	Providence & Stonington Steamship Co., (Assignee)....	Feb. 1, 1870, to Feb. 1. 1880..
North half Pier 29.....	Erie Railway Co....	Feb. 1, 1870, to Feb. 1, 1880..
Widening South side Pier 29.....	George W. Quintard, Agent.....	May 1, 1871, to Feb. 1, 1880..
Pier 30....	Pavonia Ferry Co....	At pleasure of the Board.....
Pier 31 and one-half of bulkhead on each side thereof.....	Erie Railway Co....	At pleasure of the Board....
Pier 32 and one-half of bulkhead on each side thereof.....	Erie Railway Co., (Assignee).....	At pleasure of the Board.....
Platforms on each side of Pier 32 at bulkhead...	Erie Railway Co.....	At pleasure of the Board.....
South half Pier 33 and half bulkhead adjoining.....	Providence & Stonington Steamship Co.....	At pleasure of the Board.....

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$2,000 per ann..	By Commissioners of the Sinking Fund, lease dated December 17, 1869.
.....	3,000 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	2,000 per ann..	By Resolution March 11, 1874.
.....	2,005 per ann..	By Public Sale June 10, 1875.
.....	2,910 per ann..	By Public Sale March 14, 1878.
.....	7,500 per ann..	By Commissioners of the Sinking Fund, lease dated January 18, 1870.
.....	7,500 per ann..	By Commissioners of the Sinking Fund, lease dated January 18, 1870.
.....	100 per ann	By Resolution February 9, 1871.
.....	15,000 per ann..	(Holding over till completion of new work.)
.....	12,500 per ann..	
.....	10,500 per ann..	
.....	1,500 per ann..	By Resolution September 1, 1873.
.....	10,000 per ann..	By Resolution April 6, 1876.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Platform north side Pier 33	Providence & Stonington Steamship Co.	At pleasure of the Board
North half Pier Old 34	D. D. & T. Smith	May 1, 1876, to May 1, 1877
North half Pier Old 34	S. D. Coykendall & J. H. Tremper	May 1, 1877, to May 1, 1878
North half Pier Old 34	J. H. Tremper & S. D. Coykendall	May 1, 1878, to May 1, 1879
Platform south side Pier Old 35	Homer Ramsdell	At pleasure of the Board
Pier Old 35	John P. Acker	May 1, 1869, to May 1, 1879
Platform south side Pier Old 36	Bogert & Morgan, Agents	At pleasure of the Board
Pier Old 36	Empire Transportation Co., (Assignee)	Feb. 1, 1870, to Feb. 1, 1880
Pier Old 37	Old Dominion Steamship Co	June 1, 1869, to May 1, 1879
Platform on each side of Pier Old 37	Old Dominion Steamship Co	At pleasure of the Board
Pier Old 38 and North Battery	Pennsylvania R. R. Co., (Assignee)	June 1, 1869, to May 1, 1879
Bulkhead south of Pier Old 39	Harvey P. Farrington	Aug. 1, 1869, to May 1, 1879
Platform at bulkhead south of Pier Old 39	Harvey P. Farrington	May 1, 1873, to May 1, 1879
Pier Old 39	Henry Smith	May 1, 1869, to May 1, 1879
Land under water for platform north side Desbrosses st	New Jersey R. R. & Transportation Co.	At pleasure of the Board

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$350 per ann..	By Resolution August 1, 1872.
$6,100 per ann...	.....	By The Mayor, &c., lease dated April 26, 1866 (holding over).
6,500 per ann...	.....	By Public Sale March 12, 1877.
.....	7,050 for term..	By Public Sale March 14, 1878.
.....	100 per ann..	By Resolution September 19, 1872.
.....	9,000 per ann..	By The Mayor, &c., lease dated May 1, 1869.
.....	250 per ann..	By Resolution August 8, 1877.
.....	8,609.60 per ann.	By Commissioners of the Sinking Fund, May 31, 1869.
.....	8,500 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	2,500 per ann..	By Resolution Feb. 20 & July 21, 1873.
.....	18,000 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	300 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	100 per ann..	By Resolution Oct. 10, 1872.
.....	10,500 per ann..	By The Mayor, &c., lease dated May 1, 1869.
.....	1,000 per ann..	By Resolution Nov. 2, 1871.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Pier Old 40 and northerly bulkhead	Harvey P. Farrington.	May 1, 1873, to May 1, 1883..
Pier Old 42	Edgar W. Youmans...	May 1, 1876, to May 1, 1879..
Pier New 34 and one-half of bulkhead on each side	Pacific Mail Steamship Co	Sept. 1, 1874, to Sept. 1, 1884.
Pier New 35, and northerly bulkhead (formerly Pier Old 43)	William R. Garrison.	May 1, 1873, to May 1, 1883..
Platform at south side of Pier Old 44, &c.	Francis W. J. Hurst.	At pleasure of the Board.....
Pier New 37 (formerly Old 45)	John G. Dale, Agent.	Nov. 1, 1869, to Nov. 1, 1879.
Bulkhead between Piers New 37 and New 38	Booth & Edgar	At pleasure of the Board.....
Pier New 38	Williams & Guion	May 1, 1878, to May 1, 1888..
Pier Old 47	Francis W. J. Hurst (National S. S. Co.)	May 1, 1876, to Feb. 1, 1878..
Pier New 39	Francis W. J. Hurst (National S. S. Co.)	Feb. 1, 1878, to Feb. 1, 1888..
Pier 48, except L and use of water on north side	Delaware, Lackawanna & Western R. R. Co.	May 1, 1876, to May 1, 1878..
L and water on north side Pier 48	Central R. R. Co., of New Jersey	May 1, 1876, to May 1, 1877..
Pier New 41, (formerly Old 49)	Knickerbocker Ice Co	Dec. 1, 1869, to Dec. 1, 1879..
Pier New 42	Compagnie Gènèrale Transatlantique	Nov. 1, 1876, to Nov. 1, 1886.
Bulkhead and slip between Piers New 43 and New 44	Hoboken Land & Improvement Co.	May 1, 1874, to May 1, 1884..

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$10,000 per ann..	By Resolution March 14, 1873.
.....	4,510 per ann..	By Public Sale April 21, 1876.
.....	45,000 per ann..	By Resolution July 23, 1874.
.....	22,500 per ann..	By Resolution April 24, 1873.
$1,750 per ann..	.....	By Resolution Feby. 29, 1872.
.....	8,500 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	1,000 per ann..	By Resolution June 28, 1876.
.....	30,000 per ann..	By Resolutions April 26, 1876, and January 30, 1878.
15,000 per ann..	.....	By Resolution April 26, 1876.
.....	30,000 per ann..	By Resolutions April 26, 1876, and January 30, 1878.
15,000 per ann..	.....	By Resolution April 26, 1876.
5,000 per ann..	.....	By Resolution April 26, 1876.
.....	8,000 per ann..	By Commissioners of the Sinking Fund, May 31, 1869.
.....	30,000 per ann..	By Resolution Feb. 18, 1875.
.....	15,000 per ann..	By Resolution February 2, 1874.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Piers New 44 and New 45 and bulkhead between, and one-half bulkhead north of New 45	Oceanic Steam Navigation Co.	July 1, 1874, to July 1, 1884
Pier New 46	Charles L. Wright & Co.	At pleasure of the Board
Pier New 46	John S. Williams	May 1, 1876, to May 1, 1878
Pier New 47 and 500 feet bulkhead easterly thereof	Alexander Mason and Robert Foster	May 1, 1875, to May 1, 1878
Pier New 47 and southerly bulkhead	Alexander Mason	May 1, 1878, to May 1, 1881
Bulkhead along easterly side of approach to Piers New 46 and New 47	Alexander Mason	May 1, 1878, to May 1, 1881
Bulkhead south of Pier 54, &c.	Wm. H. Christie	Nov. 1, 1873, to May 1, 1878
Bulkhead south of Pier 54	Wm. H. Christie	May 1, 1878, to May 1, 1881
Pier 54	Matthew Foster	May 1, 1875, to May 1, 1878
Pier 54	Henry Miller, Jr.	May 1, 1878, to May 1, 1881
Pier at 11th st. and bulkhead extending easterly to West st.	John D. Tracy	(Dispossessed Oct. 31, 1877)
Bulkhead at Bank st.	Knickerbocker Ice Co	May 1, 1878, to May 1, 1881
Pier at Bethune st.	David Tracy	May 1, 1875, to May 1, 1878
Pier at Bethune st. (except reservation for Public Bath)	Decker & Rapp	May 1, 1878, to May 1, 1881
Pier at Jane st.	Decker, Rapp & Co	May 1, 1875, to May 1, 1878
Pier at Jane st.	Decker & Rapp	May 1, 1878, to May 1, 1881
Pier at Horatio st.	Consumers' Ice Co	May 1, 1875, to May 1, 1878
Pier at Horatio st.	W. G. Schenck	May 1, 1878, to May 1, 1881
Pier at Gansevoort st.	Daniel Shea	Mar. 10, 1874, to Feb. 1, 1879
Bulkhead north of Gansevoort st.	Minot F. Winch and William Kemp	May 1, 1875, to May 1, 1878

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$45,000 per ann..	By Resolution December 4, 1873.
$60 per day..	.....	By Resolution November 3, 1875.
9,300 per ann..	.....	By Resolution April 26th, 1876.
6,100 per ann	.....	By Public Sale, March 31, 1875.
.....	4,500 per ann..	By Public Sale, March 14, 1878.
.....	1,000 per ann..	By Public Sale, March 14, 1878.
6,000 per ann..	.....	By Resolution Oct. 21, 1873.
.....	6,000 per ann..	By Public Sale March 14, 1878.
5,200 per ann..	.....	By Public Sale March 31, 1875.
.....	3,000 per ann..	By Public Sale March 14, 1878.
5,950 per ann..	.....	By Public Sale April 21, 1876.
.....	300 per ann..	By Public Sale April 22, 1878.
760 per ann..	.....	By Public Sale March 31, 1875.
.....	375 per ann..	By Public Sale March 14, 1878.
760 per ann	.....	By Public Sale March 31, 1875.
.....	895 per ann..	By Public Sale March 14, 1878.
800 per ann..	.....	By Public Sale March 31, 1875.
.....	750 per ann..	By Public Sale March 14, 1878.
.....	3,250 per ann..	By Resolution February 12, 1874.
1,300 per ann..	.....	By Public Sale March 31, 1875.

(North River.) Rent Roll.—

Property.	Lessee or Occupant	Term of Tenancy.
Bulkhead north of Pier at Gansevoort st.....	New York City Ice Co	May 1, 1878, to May 1, 1881..
Pier north of Bloomfield st.....	Felix Dougherty.....	May 1, 1875, to May 1, 1878..
Pier north of Bloomfield st.....	Felix Dougherty.....	May 1, 1878, to May 1, 1881..
Bulkhead south of Little 12th st.....	Edgar W. Youmans..	May 1, 1875, to May 1, 1878..
Bulkhead south of Pier at Little 12th st.....	Drew & Bucki.....	May 1, 1878, to May 1, 1881..
Pier at Little 12th st..	George F. Drew and Louis Bucki (Assignees).....	May 1, 1875, to May 1, 1878..
Pier at Little 12th st....	Drew & Bucki.....	May 1, 1878, to May 1, 1881..
North half Pier at 13th st.	A. C. Cheney, Pres't.	May 1, 1878, to May 1, 1881..
Bulkhead at 14th st. ...	Mutual Benefit Ice Co	May 1, 1875, to May 1, 1878..
Bulkhead at 14th st.....	Mutual Benefit Ice Co	May 1, 1878, to May 1, 1881..
Pier at 15th st.....	Fred'k Habkemeier..	May 1, 1875, to May 1, 1878..
Pier at 15th st.....	A. C. Cheney.....	May 1, 1878, to May 1, 1881..
Pier at 16th st.....	A. C. Cheney.....	May 1, 1878, to May 1, 1881..
Pier at 17th st.....	Manhattan Gas Light Co.....	May 1, 1875, to May 1, 1878..
Pier at 17th st.....	Manhattan Gas Light Co.....	May 1, 1878, to May 1, 1881..
Pier at 18th st.....	Manhattan Gas Light Co.....	May 1, 1875, to May 1, 1878..
Pier at 18th st.....	Manhattan Gas Light Co.....	May 1, 1878, to May 1, 1881..
Bulkhead at 19th st ..	Edgar W. Youmans..	May 1, 1876, to May 1, 1879..
Pier at 20th st.....	Knickerbocker Ice Co	May 1, 1876, to May 1, 1886..
Pier at 22d st.....	A. Van Santvoord...	May 1, 1876, to May 1, 1886..
Extension to Pier at 22d st.	A. Van Santvoord...	June 20, 1876, to May 1, 1886.
Platform north of ferry at 23d st.....	Twenty-third st. R'y. Co.....	At pleasure of the Board.....
Pier at 24th st.....	A. Van Santvoord...	May 1, 1875, to May 1, 1878..
Pier at 24th st.....	C. T. Van Santvoord.	May 1, 1878, to May 1, 1881..

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$1,250 per ann..	By Public Sale March 14, 1878.
$1,200 per ann..	.....	By Public Sale March 31, 1875.
.....	1,000 per ann..	By Public Sale March 14, 1878.
405 per ann..	.....	By Public Sale March 31, 1875.
.....	510 per ann..	By Public Sale March 18, 1878.
925 per ann..	.....	By Public Sale April 22, 1875.
.....	750 per ann..	By Public Sale April 15, 1878.
.....	500 per ann..	By Public Sale March 14, 1878.
1,010 per ann..	.....	By Public Sale April 22, 1875.
.....	1,000 per ann..	By Public Sale March 14, 1878.
825 per ann..	.....	By Public Sale April 22, 1875.
.....	905 per ann..	By Public Sale March 14, 1878.
.....	700 per ann..	By Public Sale March 14, 1878.
1,900 per ann..	.....	By Public Sale March 31, 1875.
.....	2,000 per ann..	By Public Sale March 14, 1878.
1,900 per ann..	.....	By Public Sale March 31, 1875.
.....	2,000 per ann..	By Public Sale March 14, 1878.
.....	255 per ann.	By Public Sale April 21, 1876.
.....	1,505 per ann..	By Public Sale April 21, 1876.
.....	1,410 per ann..	By Public Sale April 21, 1876.
.....	250 per ann..	By Resolution May 10, 1876.
.....	350 per ann..	By Resolutions May 2 & 15, 1877.
5,000 per ann..	.....	By Public Sale March 31, and Resolution April 8, 1875.
.....	4,000 per ann..	By Public Sale April 15, 1878.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Pier at 25th st	A. Van Santvoord	May 1, 1875, to May 1, 1878
Pier at 25th st	C. T. Van Santvoord, Agent	May 1, 1878, to May 1, 1881
Pier at 26th st	David Tracy	(Dispossessed May 26, 1877)
Pier at 26th st	C. T. Van Santvoord, Agent	May 1, 1878, to May 1, 1881
Pier at 28th st	Heinrich A. Tiedemann	May 1, 1876, to May 1, 1879
Pier at 30th st	David Tracy	(Dispossessed May 26, 1877)
Pier at 30th st	Thomas Fitzpatrick	May 1, 1878, to May 1, 1881
Land under water for Pier at 33d st	N. Y. Central & Hud. R. R. R. Co	Nov. 1, 1873, to Nov. 1, 1883
Pier at 34th st	David Tracy	(Dispossessed May 26, 1877)
Berth, south side Pier at 34th st	Scott & Co	At pleasure of the Board
Berth, south side Pier at 34th st	H. F. Hunt	At pleasure of the Board
Pier at 34th st	Scott & Co	May 1, 1878, to May 1, 1881
Pier at 35th st	David Tracy	(Dispossessed May 26, 1877)
Berth, south side Pier at 35th st	Empire City Ice Co	At pleasure of the Board
Float at 36th st	Charles P. Martin	At pleasure of the Board
Pier at 37th st	Thomas Gaynor	May 1, 1876, to May 1, 1879
Pier at 40th st	David Tracy	(Dispossessed May 26, 1877)
Pier at 40th st	Jas. McClenahan	May 1, 1878, to May 1, 1881
Extension to Pier at 43d st	Knickerbocker Ice Co	At pleasure of the Board
Pier at 46th st	David Tracy	(Dispossessed May 26, 1877)
Pier at 47th st	Herman Hastorf	May 1, 1875, to May 1, 1878
Pier at 47th st (except reservation for dump)	Thomas Fitzpatrick	May 1, 1878, to May 1, 1881
Platform at 50th st	James Gillies	At pleasure of the Board
Pier at 51st st	Frederick Broege	May 1, 1875, to May 1, 1878
Pier at 51st st	Martin Karl	May 1, 1878, to May 1, 1881
Pier at 55th st	Western Union Telegraph Co	May 1, 1876, to May 1, 1879
Pier at 57th st	David Tracy	(Dispossessed May 26, 1877)
Pier at 57th st	Alfred J. Sergeant	May 1, 1878, to May 1, 1879

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1, 1878.	
$1,775 per ann..	.....	By Public Sale March 31, 1875.
.....	$1,500 per ann..	By Public Sale March 14, 1878.
1,005 per ann..	.....	By Public Sale March 31, 1875.
.. ..	750 per ann..	By Public Sale April 22, 1878.
.....	390 per ann..	By Public Sale March 7, 1876.
3,000 per ann.	....	By Public Sale March 31, 1875.
.....	1,800 per ann..	By Public Sale April 22, 1878.
.....	5,000 per ann.	By Resolution September 13, 1873.
3,900 per ann..	.....	By Public Sale March 31, 1875.
75 per mo...	.....	By Resolution June 15, 1877.
5 per day..	.....	By Resolution July 18, 1877.
.....	3,020 per ann..	By Public Sale March 14, 1878.
2,925 per ann..	.....	By Public Sale March 31, 1875.
75 per mo...	.....	By Resolution June 15, 1877.
.....	50 per ann..	By Resolution May 23, 1877.
....	930 per ann..	By Public Sale March 7, 1876.
4,600 per ann..	.....	By Resolution September 21, 1874.
.....	1,500 per ann..	By Public Sale April 15, 1878.
... .	100 per ann..	By Resolutions Sept. 25 & Nov. 21, 1873
3,005 per ann..	.....	By Public Sale March 31, 1875.
1,550 per ann..	.. ..	By Public Sale March 31, 1875.
....	750 per ann..	By Public Sale April 22, 1878.
.....	100 per ann..	By Resolution April 15, 1875.
1,300 per ann..	.....	By Public Sale March 31, 1875
.....	1,500 per ann..	By Public Sale April 15, 1878.
.....	810 per ann..	By Public Sale March 7, 1876.
2,500 per ann..	....	By Public Sale March 31, 1875
.....	1,070 for term..	By Public Sale April 15, 1878.

(North River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Land under water, for Pier at 59th st.....	N. Y. Central & Hud. R. R. R. Co.....	Nov. 1, 1877, to Nov. 1, 1887.
Land under water between 60th and 65th sts. (for erection of two Piers).....	N. Y. Central & Hudson R. R. R. Co....	Aug. 1, 1874, to Aug. 1, 1884.
Pier at 79th st.....	James Slattery.....	May 1, 1876, to May 1, 1879..
Pier at 96th st.....	Theodore F. Tone. .	May 1, 1878, to May 1, 1881..
Pier at 129th st.....	Heinrich A. Tiedemann.....	Dec. 1, 1875, to May 1, 1878..
Pier at 129th st. (excep reservation for dump).	Theodore F. Tone...	May 1, 1878, to May 1, 1881..
Bulkhead between southerly line of 130th st and Pier at 131st st .	Mutual Benefit Ice Co	May 1, 1878, to May 1, 1881..
Pier at 131st st.....	Herman Hastorf	May 1, 1875, to May 1, 1878..
Bulkhead north of Pier at 131st st.....	Nicholas Rogers (Assignee).....	June 1, 1875, to June 1, 1878..
Pier at 131st st. and northerly bulkhead extending to retainin wall....	Theodore F. Tone...	June 1, 1878, to June 1, 1881..
Pier at 152d st.....	Theodore F. Tone...	May 1, 1878, to May 1, 1881..
East River.		
Pier 1 and 81½ ft. bulkhead easterly.....	John H. Starin (Assignee)	May 1, 1874, to May 1, 1884..
Bulkhead, &c., west of Pier 1.....	Staten Island R'y. Co.	Nov. 1, 1877, to Nov. 1, 1882..
East half Pier 4 and west half Pier 5 and bulkhead between.....	N. Y. Central & Hudson R. R. R. Co. ..	May 1, 1876, to May 1, 1886..

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$1,000 per ann..	By Resolutions August 16, 1876, and November 7, 1877.
$2,500 per ann. to Aug. 1, '77.....	5,000 per ann.. from Aug. 1, '7.	By Resolution June 22, 1874.
.....	260 per ann .	By Public Sale March 7, 1876.
.....	115 per ann..	By Public Sale April 15, 1878.
510 per ann..	.....	By Public Sale November 5, 1875.
.....	250 per ann..	By Public Sale April 15, 1878.
.....	250 per ann..	By Public Sale April 15, 1878.
1,000 per ann..	....	By Public Sale March 31, 1875.
....	100 per ann..	By Public Sale June 10, 1875.
....	750 per ann.	By Public Sale April 15, 1878.
....	25 per ann..	By Public Sale March 14, 1878.
....	10,000 per ann..	By Resolution January 19, 1874.
....	4,200 per ann..	By Public Sale October 25, 1877.
... .	6,010 per ann..	By Public Sale March 7, 1876.

(East River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Platform at bulkhead, between Piers 4 and 5, &c.	N. Y. Central & Hudson R. R. R. Co. ..	May 1, 1876, to May 1, 1886..
East half Pier 5 and west half Pier 6 and bulk head between.....	N. Y. Central & Hudson R. R. R. Co. ..	May 1, 1876, to May 1, 1886..
East half Pier 6 and bulkhead adjoining.....	Edward L. Donnelly.	Dec. 1, 1875, to May 1, 1878..
East half Pier 6 and bulk heads adjoining.....	William Lloyd.. ...	May 1, 1878, to May 1, 1886..
Pier 7.....	Erie Railway Co. (Assignee).....	Dec. 1, 1875, to May 1, 1878..
Pier 7.....	N. Y., Lake Erie & Western R. R. Co..	May 1, 1878, to May 1, 1881..
West half Pier 8 and bulkheads adjoining...	Erie Railway Co. (Assignee).....	Feb. 1, 1876, to May 1, 1881..
West half Pier 12 and part bulkhead adjoining.....	David Tracy.....	(Dispossessed May 26, 1877)..
West half Pier 12 and bulkhead adjoining...	William Lloyd.....	May 1, 1878, to May 1, 1881..
East half Pier 18.....	Thomas I. Madge....	May 1, 1876, to May 1, 1879.
Bulkhead between Pier 18 and 19.....	Thomas I. Madge (Assignee).....	Dec. 1, 1875, to May 1, 1878..
Platform at bulkhead between Piers 18 and 19	Thomas I. Madge....	May 1, 1876, to May 1, 1878..
Bulkhead between Piers 18 and 19, including platform.....	John E. Stow (Assignee)..	May 1, 1878, to May 1, 1881..
West half Pier 19.....	Alex. Mason & Robert Foster.....	May 1, 1875, to May 1, 1878..
West half Pier 19.....	Alexander Mason....	May 1, 1878, to May 1, 1881..
Bulkhead between Piers 20 and 21.....	West India Fruit Dealers' Ass'n ...	May 1, 1876, to May 1, 1879..

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1, 1878,	
.....	$800 per ann..	By Resolutions May 10 aud 16 and June 28, 1876.
.....	9,000 per ann..	By Public Sale March 7, 1876.
$2,900 per ann..	.....	By Public Sale November 5, 1875.
.....	5,600 per ann..	By Public Sale April 15, 1878.
6,150 per ann..	.....	By Public Sale November 5, 1875.
.....	5,(00 per ann..	By Public Sale April 22, 1878.
.....	6,600 per ann..	By Public Sale January 25, 1876.
4,200 per ann..	.....	By Public Sale November 5, 1875.
.....	3,855 per ann..	By Public Sale March 14, 1878.
.....	3,715 per ann..	By Public Sale April 21, 1876.
255 per ann..	.....	By Public Sale November 5, 1875.
375 per ann..	.....	By Resolution April 26, 1876.
.....	250 per ann..	By Public Sale April 15, 1878.
5,210 per ann .	.....	By Public Sales March 31 and April 22, 1875.
.....	4,500 per ann	By Public Sale March 14, 1878.
.....	6,250 per ann..	By Public Sale March 7, 1876.

(East River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Platform south of Pier 20.	C. H. Mallory & Co..	At pleasure of the Board.....
East half Pier 20..	C. H. Mallory & Co..	Aug. 15, 1873, to Aug. 15, 1878
East half Pier 20.....	C. H. Mallory & Co..	Aug. 15, 1878, to Aug. 15, 1883
West half Pier 21.....	Thomas O'Rorke.....	May 1, 1875, to May 1, 1878..
West half Pier 21.....	Thomas O'Rorke.....	May 1, 1878, to May 1, 1881..
Outer half, east side Pier 22	Morrisania Steamboat Co.....	May 1, 1876, to May 1, 1879..
Part of outer end, west half, Pier 23.....	John H. Lynch	June 1, 1875, to June 1, 1878..
West side Pier 23, being 211 feet of outer end..	John H. Lynch.....	June 1, 1878, to June 1, 1879..
East half Pier 24 and half bulkhead adjoining.....	Hartford and N. Y Steamboat Co.....	May 1, 1876, to May 1, 1881..
West half Pier 25 and half bulkhead adjoining.....	New Haven Steamboat Co.....	May 1, 1876, to May 1, 1881..
East half Pier 25 and west half Pier 26 and bulkhead between ...	New Haven Steamboat Co.....	June 1, 1869, to May 1, 1879..
East half Pier 31 and west half Pier 32 and bulkhead between	East River Ferry Co.	May 1, 1878, to May 1, 1883..
East half Pier 33 and west half Pier 34 and bulkhead between....	Philadelphia & New York Steam Navigation Co.....	May 1, 1876, to May 1, 1881..
Platform between Piers 35 and 36.....	S. F. Shortland & Brother....	At pleasure of the Board.....
Pier 37 and part of bulkheads on each side, except the dump.....	R. Cornell White....	May 1, 1875, to May 1, 1880..

Continued.

Rent.		Right of Tenancy.
Leases, &c., terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$200 per ann..	By Resolution March 27, 1878.
.....	8,000 per ann..	By Resolution July 3, 1873.
.....	5,000 per ann..	By Public Sale March 14, 1878.
$3,010 per ann..	.....	By Public Sale April 22, 1875.
.....	3,000 per ann..	By Public Sale March 14, 1878.
.....	2,750 per ann..	By Public Sale March 7, 1876.
.....	2,310 per ann..	By Public Sale June 10, 1875.
.....	2,020 for the term	By Public Sale March 14, 1878.
.....	5,710 per ann..	By Public Sale March 7, 1876.
.....	5,510 per ann..	By Public Sale March 7, 1876.
.....	4,250 per ann..	By Commissioners of the Sinking Fund May 31, 1869.
.....	2,500 per ann..	By Public Sale April 19, 1878.
.....	10,110 per ann..	By Public Sale March 7, 1876.
.....	50 per ann..	By Resolution May 2, 1877.
.....	3,000 per ann..	By Resolution October 1, 1874.

PROPERTY.	LESSEE OR OCCUPANT.	TERM OF TENANCY.
Pier 38 and half of westerly bulkhead.....	Maine Steamship Co.	May 1, 1876, to May 1, 1881..
Platform between Piers 38 and 39	Peter Charles.....	At pleasure of the Board.....
Pier 40, and half of easterly bulkhead.....	Frank and Howard Phelps....	May 1, 1877, to May 1, 1882..
Pier 41, and part of bulkheads on each side....	N. Y., Alexandria & Washington Steamship Co	May 1, 1876, to May 1, 1879..
One-ninth part of Pier 42.....	William F. Buckley..	May 1, 1876, to May 1, 1879..
Extension to Pier 42....	N. Y. Floating Drydock Co	May 1, 1873, to May 1, 1878..
Pier 43, except inner half of west side.....	Long Island R. R. Co.	May 1, 1875, to May 1, 1878..
Pier 43, except in-shore half of west side.....	Joseph Cooper.....	May 1, 1878, to May 1, 1881..
Pier 44 and westerly bulkhead.....	Alex'r Mason and Robert Foster.....	May 1, 1875, to May 1, 1878..
Pier 44 and westerly bulkhead.....	Alexander Mason ...	May 1, 1878, to May 1, 1881..
Pier 46	Alexander Mason and Robert Foster.....	Feb. 1, 1876, to May 1, 1878..
Pier 46	Joseph V. Brown....	May 1, 1878, to May 1, 1881..
Pier 48	Thomas C. Burke....	May 1, 1876, to May 1, 1881..
Platform between Piers 50 and 51.....	Harlem River & Port Chester R. R. Co..	At pleasure of the Board.....
East half Pier 51.....	David Tracy	(Dispossessed May 26th, 1877)
Small pier and bulkhead between Piers 51 and 52	David Tracy.....	(Dispossessed May 26th, 1877)
West half Pier 52.....	David Tracy.....	(Dispossessed May 26th, 1877)
East half Pier 53, ...	David Tracy.....	(Dispossessed May 26th, 1877)
Bulkhead at Corlears st.	Ezra Quimby.....	May 1, 1876, to May 1, 1879..

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated	Leases, &c., in force on and after May 1, 1878.	
.....	$7,510 per ann..	By Public Sale March 7, 1876.
.....	400 per ann...	By Resolution June 16, 1875.
.....	5,010 per ann...	By Public Sale March 12, 1877.
....	5,505 per ann...	By Public Sale April 21, 1876.
.. ..	251 per ann....	By Public Sale April 21, 1876.
$200 per ann....	.....	By Resolution April 10, 1873.
5,800 per ann...	.. ..	By Public Sale March 31, 1875.
.....	2,500 per ann...	By Public Sale April 15, 1878.
5,600 per ann...	.....	By Public Sale March 31, 1875.
.. ..	4,700 per ann...	By Public Sale April 15, 1878.
6,300 per ann...	.....	By Public Sale January 25, 1876
.....	5,600 per ann...	By Public Sale April 15, 1878.
....	4,300 per ann ..	By Public Sale March 7, 1876.
.....	2,500 per ann...	By Resolution May 7, 1874.
2,000 per ann...	... ...	By Public Sale April 22, 1875.
800 per ann...	.....	By Public Sale March 31, 1875.
2,200 per ann...	.....	By Public Sale April 22, 1875.
800 per ann.	....	By Public Sale March 31, 1875.
.....	170 per ann....	By Public Sale March 7, 1876.

Property.	Lessee or Occupant.	Term of Tenancy.
South half Pier 55 and 54 feet of bulkhead adjoining (except outer end of pier)	Hoeft & Ficken.....	May 1, 1874, to May 1, 1879..
Outer end of Pier 55....	Morrisania Steamboat Co	At pleasure of the Board.....
North half Pier 56 and south half Pier 57 and bulkhead between....	James W. Boyle.....	May 1, 1876, to May 1, 1879..
North half pier 58 and half bulkhead adjoining	Carll Smith & Son...	June 1, 1875, to June 1, 1878..
North half Pier 58 and half of bulkhead adjoining	Carll Smith & Son...	June 1, 1878, to June 1, 1881..
South half Pier 59 and half bulkhead adjoining	Knickerbocker Ice Company	June 1, 1875, to June 1, 1878..
South half Pier 59 and half of bulkhead adjoining	Knickerbocker Ice Company	June 1, 1878, to June 1, 1881..
Pier 60.....	John D. Tracy.....	(Dispossessed March 28, 1877)
Bulkhead on north side Rivington st	David Tracy.....	(Dispossessed May 26, 1877)..
Bulkhead (188 feet) on Tompkins st., north of Rivington st.	James R. Klots.....	May 1, 1877, to May 1, 1880..
Pier 60 and bulkhead westerly from north side to Tompkins st..	Joseph V. Brown ...	May 1, 1878, to May 1, 1881..
Pier 61 and 55 feet of northerly bulkhead...	Henry A. Peck & Co.	May 1, 1875, to May 1, 1878..
Pier 61 and 55 feet of northerly bulkhead (except reservation for dump).....	Isaac Fowler.....	May 1, 1878, to May 1, 1881..

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1, 1878.	
.....	$1,700 per ann...	By Resolution May 14, 1874.
.....	500 per ann....	By Resolution April 8, 1875.
.....	2,255 per ann...	By Public Sale March 7, 1876.
.....	950 per ann....	By Public Sale June 10, 1875.
.....	1,000 per ann...	By Public Sale March 14, 1878.
.....	1,025 per ann...	By Public Sale June 10, 1875.
.....	1,000 per ann...	By Public Sale March 14, 1878.
$1,505 per ann...	.....	By Public Sale March 7, 1876.
1,014.10 per ann.	.....	By Public Sale March 31, and Resolution July 14, 1875.
.....	400 per ann....	By Public Sale March 12, 1877.
.....	1,850 per ann...	By Public Sale March 14, 1878.
1,575 per ann...	.....	By Public Sale April 22, 1875.
.....	1,250 per ann...	By Public Sale March 14, 1878.

(East River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
North half Pier 62.....	Mutual Benefit Ice Company	May 1, 1878, to May 1, 1881..
Bulkhead at Houston st.	Associates of the Houston Street Ferry	May 1, 1874, to May 1, 1879..
Pier at 3d st.	David Tracy	(Dispossessed May 26, 1877)...
Berth at north side, Pier at 3d st.....	East River Bathing Co	May 10, 1877, to Sep. 15, 1877.
Berth at north side, Pier at 3d st	East River Bathing Co	During summer season of 1878.
Berth at north side, Pier at 3d st.....	H. C. Fuller, Manager (Arrow Ice Co.)...	April 1, 1878, to Oct. 1, 1878.
Pier at 5th st., except dump and berth for Bath.....	Joseph V. Brown....	May 1, 1876, to May 1, 1879..
Bulkhead at 14th st.....	Manhattan Gas Light Co	May 1, 1875, to May 1, 1878..
Bulkhead at 14th st.....	Manhattan Gas Light Co	May 1, 1878, to May 1, 1881..
Bulkhead at 15th st.....	Manhattan Gas Light Co	May 1, 1875, to May 1, 1878..
Bulkhead at 15th st.....	Manhattan Gas Light Co	May 1, 1878, to May 1, 1881..
Bulkhead at 16th st.....	Manhattan Gas Light Co	May 1, 1876, to May 1, 1879..
Extension to Pier at 22d st.....	James Savage.....	At pleasure of the Board....
Pier at 23d st.....	Joseph V. Brown ...	May 1, 1876, to May 1, 1879..
Outer end of Pier at 23d st	New Haven Steamboat Co.....	At pleasure of the Board.....
Outer end of Pier at 23d st.....	Morrisania Steamboat Co	At pleasure of the Board.....
Bulkhead north of 23d st.	Greenpoint Ferry Co.	Aug. 1, 1877, to Aug. 1, 1882.

Continued.

Rent:		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$600 per ann....	By Public Sale April 15, 1878.
.....	6,500 per ann...	By Resolutions April 16 & Dec. 12, 1874.
$2,800 per ann...	.....	By Public Sale March 31, 1875.
500 for term ..	.....	By Resolution June 15, 1877.
.....	500 for term...	By Resolution April 24, 1878.
.....	75 per month...	By Resolution March 27, 1878.
.....	405 per ann....	By Public Sale April 21, 1876.
550 per ann.....	.....	By Public Sale March 31, 1875.
.....	600 per ann....	By Public Sale March 14, 1878.
550 per ann.....	....	By Public Sale March 31, 1875.
.....	600 per ann....	By Public Sale March 14, 1878.
.....	525 per ann....	By Public Sale April 21, 1876.
.....	300 per ann....	By Resolution October 3, 1877.
.....	565 per ann....	By Public Sale April 21, 1876.
75 per month....	.....	By Resolution May 31, 1877.
.....	500 per ann....	By Resolution April 8, 1875.
.....	2,501 per ann...	By Public Sale October 11, 1877.

(East River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Bulkhead between 23d and 24th sts....	Chas. E. Heuberer & Co	June 1, 1875, to June 1, 1878..
Bulkhead south of 24th st., north of the Ferry premises	Joseph V. Brown....	June 1, 1878, to June 1, 1881..
Pier at 25th st	Heinrich A. Tiedemann	May 1, 1876, to May 1, 1879..
Pier at 28th st	Joseph V. Brown....	Feb. 1, 1876, to May 1, 1878..
Bulkhead at 32d st	John W. Manning ...	May 1, 1877, to May 1, 1880..
Pier at 33d st., except outer end.....	David Tracy.....	(Dispossessed May 26, 1877.)..
Pier at 33d st., except outer end.....	Knickerbocker Ice Co.	May 1, 1878, to May 1, 1881..
Outer end of Pier at 33d st.....	L. I. North Shore Freight & Transportation Co... ..	At pleasure of the Board.....
Bulkhead at 34th st.....	East River Ferry Co.	Nov. 1, 1877, to Nov. 1, 1882..
Bulkhead at 35th st.....	Garret L. Schuyler..	May 1, 1877, to May 1, 1880..
Bulkhead at 36th st.....	Popham & Co.....	May 1, 1877, to May 1, 1880..
Pier at 37th st.....	David Tracy.....	May 1, 1875, to May 1, 1878..
Pier at 37th st., (except reservation for public bath).....	John Nesbit....	May 1, 1878, to May 1, 1881..
Pier at 38th st., except northerly side..... ..	Henry A. Peck & Co.	May 1, 1875, to May 1, 1878..
Pier at 38th st.. (except reservation for dump).	Isaac Fowler.....	May 1, 1878, to May 1, 1881..
Bulkhead at 39th st.....	Watrous & Willson..	At pleasure of the Board.....
Bulkhead at 43d st.....	John Absbahs.....	At pleasure of the Board.....
Land under water for dump, at 45th st... ..	Joseph Gallagher....	At pleasure of the Board.....
Outer end, Pier at 46th st., for dump.....	Michael Kane.....	At pleasure of the Board.....
Extension to bulkhead at 47th st.....	Owens & Co	At pleasure of the Board.....
Bulkhead at 48th st.....	T. B. Tweddle.....	May 1, 1878, to May 1, 1881..
Bulkhead at 51st st.....	Morrisania Steamboat Co. (Assignee). ..	July 1, 1877, to July 1, 1887..
Land under water, for Pier at 51st st.....	Morrisania Steamboat Co.....	Jan. 1, 1878, to July 1, 1887..

Continued.

Rents.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1st, 1878.	
.....	$1,020 per ann...	By Public Sale June 10, 1875.
.....	600 per ann....	By Public Sale April 15, 1878.
.....	1,010 per ann...	By Public Sale March 7, 1876.
$1,550 per ann ..	.....	By Public Sale January 25, 1876.
.....	45 per ann.....	By Public Sale March 12, 1877.
650 per ann....	.....	By Public Sale March 31, 1875.
.....	900 per ann....	By Public Sale March 14, 1878.
30 per month...	.....	By Resolution December 13, 1876.
.....	2,000 per ann...	By Public Sale September 6, 1877
.....	235 per ann....	By Public Sale March 12, 1877.
.....	130 per ann....	By Public Sale March 12, 1877.
700 per ann....	.....	By Public Sale March 31, 1875.
.....	500 per ann....	By Public Sale March 14, 1878.
730 per ann....	.....	By Public Sale April 22, 1875.
.....	400 per ann....	By Public Sale April 15, 1878.
.....	100 per ann....	By Resolution November 7, 1877.
.....	100 per ann....	By Resolution September 26, 1877
.....	100 per ann....	By Resolution June 15, 1877.
.....	400 per ann....	By Resolution October 17, 1877.
.....	300 per ann ..	By Resolution October 17, 1877.
....	150 per ann....	By Public Sale March 14, 1878.
.....	305 per ann....	By Public Sale June 6, 1877.
... .	50 per ann....	By Resolution December 19, 1877.

(East River.) Rent Roll.—

Property.	Lessee or Occupant.	Term of Tenancy.
Pier at 53d st.	Zach. S. Oppenheimer	May 1, 1875, to May 1, 1878.
Pier at 53d st.	C. H. Eldridge	May 1, 1878, to Dec. 1, 1878.
Land under water, for bulkhead between 56th and 57th sts.	Schmitt & Koehne	At pleasure of the Board
Land under water, for platform north of 62d st.	Jabez A. Bostwick	At pleasure of the Board
Land under water, for platform south of 63d st.	Ehrenreich Brothers	May 1, 1878, to Nov. 1, 1878.
Land under water, for platform at 63d st.	Neidlinger, Schmidt & Co.	June 1, 1874, to June 1, 1884.
Land under water, for bulkhead between 63d and 64th sts.	Neidlinger, Schmidt & Co.	May 1, 1874, to May 1, 1884.
Land under water, for bulkhead at 74th st.	Thomas Patten	At pleasure of the Board
Pier at 79th st.	Heinrich A. Tiedemann	Dec. 1, 1875, to May 1, 1878.
Pier at 79th st.	Frank E. Wise	May 1, 1878, to May 1, 1881.
Bulkhead or Pier at 86th st.	James H. Graham	Feb. 1, 1876, to May 1, 1878.
Harlem River.		
Pier at 106th st.	John Nesbit	May 1, 1875, to May 1, 1878.
Pier at 109th st.	Harlem & N. Y. Navigation Co.	May 1. 1876, to May 1, 1879.
Pier at 117th st.	Patrick Grace	Feb. 1, 1876, to May 1, 1878.
Pier at 120th st.	Harlem & N. Y. Navigation Co.	May 1, 1876, to May 1, 1879.
Berth for float, at North side, Pier at 125th st.	Edward McGrath & Robert H. Smith	At pleasure of the Board
Right to moor floats at steps at each end of Third Avenue Bridge.	Dillon Ransom	Feb. 1, 1876, to May 1, 1878.
Right to moor floats at steps at each end of Third Avenue Bridge.	A. L. Kerker	May 1, 1878, to May 1, 1881.

Continued.

Rent.		Right of Tenancy.
Leases, &c., Terminated.	Leases, &c., in force on and after May 1st, 1878.	
$325 per ann..	.....	By Public Sale March 31, 1875.
.....	$250 for the term.	By Resolution March 27, 1878.
.....	50 per ann..	By Resolution April 27, 1877.
.....	25 per ann..	By Resolution March 20, 1878.
... .	25 for the term.	By Resolution April 24, 1878.
.....	250 per ann..	By Resolution May 28, 1874
.....	50 per ann..	By Resolution February 12, 1874.
.....	100 per ann..	By Resolution November 21, 1877.
410 per ann..	.....	By Public Sale November 5, 1875.
.....	350 per ann..	By Public Sale April 22, 1878.
205 per ann..	.....	By Public Sale January 25, 1876.
170 per ann..	....	By Public Sale March 31, 1875.
.....	755 per ann..	By Public Sale April 21, 1876.
201 per ann..	....	By Public Sale January 25, 1876.
.....	505 per ann..	By Public Sale April 21, 1876.
25 per quarter	.....	By Resolution April 24, 1878.
1,000 per ann..	.....	By Public Sale January 25, 1876.
.....	1,200 per ann..	By Public Sale March 14, 1878.

REPORT

OF THE

ENGINEER-IN-CHIEF.

DEPARTMENT OF DOCKS,

117 AND 119 DUANE STREET.

OFFICE OF THE ENGINEER-IN-CHIEF,
NEW YORK, May 1st, 1878.

EUGENE T. LYNCH, Esq.,
Secretary of the Board of Docks:

SIR,—I have the honor to submit for the consideration of the Board of Commissioners governing this Department the following report of the several works under my supervision during the year ending April 30th, 1878:

BATTERY SECTION.—Embracing the Boat-landing, New Pier No. 1, and Bulkhead Wall, about 80 feet north of New Pier No. 1 N. R.

NEW PIER NO. 1 NORTH RIVER.—During the year Pier No. 1 has been in use for the purposes of commerce.

The blacksmith shop and tool house have been removed to Gansevoort street yard, together with the moulds for building the large foundation blocks for the wall after building twenty-six blocks at this place.

The granite mooring-posts were replaced with new ones of cast-iron, a diamond drill being used for boring holes in the pier for the Ahlstrom expansion bolts, by which the iron posts were secured to the pier.

During February and March, 1878, the mud, ashes and gravel were removed from the rock on each side of the pier, and careful soundings of the depth of water taken, and estimate prepared of cost of blasting the rock, to give greater depth of water, if necessary.

In April, 1878, the Abbott Pavement Company of Brooklyn, having offered to lay an asphalt pavement on the pier, the wooden deck planking put down last year was taken up, and the pier prepared to receive the asphalt, which is to be put down immediately.

CHAMBERS STREET SECTION.—Extending from north side of Pier No. 29 northwardly 560 feet.

In December last work was begun on this section by removing parts of Pier 30, old number, and Pier No. 32, and on 31st December dredging was commenced for the wall. The stone filling, preparatory to driving piles, has been put in, and most of the piles, for a length of wall of 160 feet, have been driven at date.

The dredging for the new ferry platform in front of this new wall, between Piers Old No. 29 and No. 30, has also been commenced, and as soon as finished, the building of the wall and the ferry platform will be carried on at the same time.

CANAL STREET SECTION.—Extending from 155 feet southerly of the south side of Pier New No. 34 to 2.14 feet northerly of the south side of Pier New No. 35, a distance of 394.20 feet (on the piling). Length of wall, 383.94 feet on the base blocks, and 302.52 on the top course of granite, equivalent to about 370.73 feet of wall built and completed.

The filling behind the wall has been completed, backing log placed on top of the coping, and the plank roadway from pavement of West street to entrance of Pier New No. 34 renewed, and the whole section has been in use.

SPRING STREET SECTION.—Extending from 2.14 feet northerly of the south side of Pier New No. 35 to 64.33 feet northerly of the north side of Pier New No. 35, a distance of 124.19 feet on the piling. Length of wall, 121.22 feet on the base blocks, equivalent to about 90 feet of wall built and completed.

The crib work of Pier Old No. 43, on line of wall, has been removed on the line of the wall, the site of the wall dredged, and the foundation of the wall completed from north end of Canal street section to about half way between Piers Old No. 43 and Old No. 44. The granite remains to be set, and will be done in the latter part of June, and the filling behind the wall will be completed about the middle of July of this year.

Pier New No. 35.—Pier Old No. 43 being in very fair condition, it was extended 161 feet westerly by 62 feet wide, and upon completion its name was changed to Pier New No. 35.

A temporary approach, to give access to the pier while building the wall behind it, was built on the southerly side of the pier. The new approach over the new wall will be done and in use about the middle of July.

CHARLTON STREET SECTION.—Extending from about 74 feet southerly of the south side of Pier New No. 37 to 28.05 feet northerly of the north side of Pier New No. 37, a distance of about 172.14 feet, has been dredged and filled with stone to the 22 feet level. Length of wall, 63 feet on piling, equivalent to about 40 feet of wall built and completed.

Pier New No. 37.—Pier Old No. 45 being found in good condition for several years' service, it was lengthened westerly 140 feet by 70 feet wide, and renamed Pier New No. 37. About 160 feet of the shed on the inner end was taken down and rebuilt on the new outer end of the pier. A temporary approach, to give access to the pier while the wall is being built in its rear, was built on the northerly side of the pier.

Bulkhead Wall.—As soon as the extension to Pier (late Old No. 45) New No. 37, and the temporary approach to the pier were built, the old pier on line of the wall was removed, and the dredging, both mud and crib-work, done. At this point, next to the Old King Street Section, the soft mud is of greater depth than usual, requiring the removal by dredging of a much larger amount than on most of the other sections, and rendering necessary the use of very long piles, and consuming much time to drive them; 15,400 cubic yards of mud and 2,780 cubic yards of crib-work were removed from site of the wall 170 feet in length. 196 piles, 75 feet and upwards in length, have been driven to date, and the most difficult and tedious part of the work being done, the wall proper will now be completed about 1st of October next. The filling-in behind the wall, building the inner end of Pier

New No. 37, and moving the shed now standing in rear of the wall upon the inner end of the new pier, can probably be done in the autumn, and the section completed.

OLD KING STREET SECTION.—Extending from about 28.05 feet northerly of the north side of Pier New No. 37 to 7.04 feet southerly of the south side of Pier New No. 38, a distance of 148.41 feet.

Length of wall; 148.41 feet on the foundation course, and 140.48 feet on the top course of granite, equivalent to about 147.75 feet of wall built and completed.

This section was completed by finishing the coping on the wall and setting backing logs upon it. The filling was completed, 10,073 loads being received in all, of which 6,889 were from the Street Cleaning Bureau.

NEW KING STREET SECTION.—Extending from 7.04 feet southerly of the south side of Pier New No. 38 to 32.37 feet northerly of the north side of Pier New No. 38, a length of 114.49 feet of wall built and completed.

The wall at this section was particularly described in report for 1877. The section has been entirely completed and put in use during the past year, a plank roadway being built across the filling from pavement of West street to Pier New No. 38.

Old Pier No. 46 has been removed, the site dredged to 25 feet depth at mean low water, and Pier New No. 38 at foot of King street built.

The dimensions of Pier New No. 38 are 587 feet by 75 feet. It was built by contract by Mr. J. E. White, and completed February 27th, 1878. A single-story shed has been built upon the pier by its lessees, plans for which were approved by me before commencing the work.

LOWER CLARKSON STREET SECTION.—Extending from 32.37 feet northerly of the north side of Pier New No. 38 to 4.72 feet southerly of the south side of Pier New No. 39, a length of 152.91 feet. Length of wall built and completed, 152.91 feet.

The work of setting the granite on this section, which was commenced last year, was completed in June, 1877. The coping, and backing log upon the coping have also been set and the filling completed. The whole section has been in use since November, 1877 ; 24,507 loads of filling were received, of which 12,646 were from the Street Cleaning Bureau.

HOUSTON STREET SECTION.—Extending from 4.72 feet southerly of the south side of Pier New No. 39 to 30.09 feet northerly of the north side of Pier New No. 39, a distance of 109.89 feet.

Length of wall built and completed, 109.89 feet. The concrete foundation blocks were set at the beginning of last year, and the granite was finished July 10th, 1877. The temporary sewer-box was built, the inshore end of Old Pier No. 47 removed, and the filling put in, in rear of wall. A plank roadway has been made over the filling from pavement of West street to Pier New No. 39.

Pier New No. 39, North River.—Pier New No. 39 was completed on July 27th, 1877, by Messrs. T. & A. Walsh, contractors. It is 75 feet by 582 feet. The lessees of this pier, The National Steamship Company, have built over it a two-storied shed. The posts and girders of this shed are of wrought iron, and rest upon piles driven through the deck of the pier after its completion, for the special purpose of carrying the weight in the upper floor of the shed. The plans for this shed were made for the National Steamship Company by C. McDonald, Esq., C. E., and were submitted to and approved by me before commencing the erection of the shed.

UPPER CLARKSON STREET SECTION.—Extending from 30.09 feet northerly of the north side of Pier New No. 39 to 55.40 feet southerly of the south side of Pier New No. 40, a distance of 102.51 feet. Length of wall, 102.51 feet on the foundation course, and 22.20 feet on the top course of granite. Equivalent length of wall built and completed, about 87.74 feet.

The foundation blocks were set on this section last year, and the

platform, as recommended by Board of Engineers for such cases, was built by Messrs. McIntire Bros., contractors, and finished July 24th, 1877.

The granite has been set 57 feet north of Pier New No. 39, and the coping 52 feet north of said pier. The filling has been put in over the platform, in rear of the granite, and carried as far north as practicable, until the Leroy street section, now being built from the northward, southerly, is extended to meet this section.

LEROY STREET SECTION.—Extending from 55.40 feet southerly of the south side of Pier New No. 40 to 25.94 feet southerly of the south side of Pier New No. 42, a distance of 561.46 feet. Length of wall; 429.64 feet on foundation course, and 428.04 feet on the top course of granite. Equivalent length of wall built and completed, about 429.4 feet.

On this section, at date of last annual report, the mud had been dredged for a distance of 183 feet from its northerly end, and the lower portion of rip-rap and cobbles put in, and driving of foundation piles for this portion of the section begun.

Within the past year the portion then begun has been completed, filled in and put in use. Pier New No. 41 (late old No. 49) has been cut through and the wall built through it, and the pier restored.

The ferry-house of the Central Railroad of New Jersey has been moved out of the way, and the wall completed across the slip to the northerly side of the ferry-house, and the ferry-house replaced.

The last of the filling behind this wall is now being put in, and the coping and backing logs are about ready to be put in place, so that the whole distance from southerly side of Pier New No. 42, foot of Morton street, North River, to northerly side of Pier Old No. 48, foot of Clarkson street, will be completed by June, 1878.

The dredging for Pier New No. 40 was begun April 9th, 1878, and plans and specifications for removing Old Pier No. 48 and building New Pier No. 40 are being prepared.

On 29th April, 1878, the Board gave orders for the completion of this section by building the wall through Pier Old No. 48, and the work of removing the old pier is begun at this date.

All the bulkhead wall built during the past year, except upper Clarkson street section, has been upon the plan submitted to the Board on 5th April 1876, with such modifications in details as experience has suggested. This plan was described and illustrated in the last annual report. The results are considered very satisfactory, and the average cost promises to differ but little from the estimated cost in the last annual report, viz.; about $200 per lineal foot.

MORTON STREET SECTION.—Extending from 25.94 feet southerly of the south side of Pier New No. 42 to 50.39 feet northerly of the north side of Pier New No. 42, a distance of 151.33 feet. Length of wall built and completed, 151.33 feet.

This section was virtually finished and put into use in October, 1876. All that has been done upon it within the past year was the filling in of the southerly end of the racking of the masonry, and completing it to the beginning of the Leroy street section. A small sewer box was also built to extend the sewer from Morton street to the wall.

CHRISTOPHER STREET SECTION.—Extending from 50.39 feet northerly of the north side of Pier New No. 42 to 6.92 feet southerly of the north side of Pier New No. 47, a distance of 1,114.80 feet.

Length of wall; 1,114.80 on the blocks, and 1,095.22 feet on the top course of granite. Equivalent length of wall built and completed, 1,111.51 feet.

Upon this section, which was finished in 1874, the work done by the Department has been the dredging of slips of the "shifting pier," Pier New No. 46, and painting and keeping in order the sheds on Piers New No. 43 and New No. 46.

In April, 1878, the "Oceanic Steam Navigation Company" (White Star Line), laid a railway track and switches from the New York Central & Hudson River Railroad Company's line in West street to Pier

New No. 45, of which they are the lessees, and laid two branch tracks upon the pier. This is the first case in the city where a steamship line has such a connection with a railroad leading all over the country.

FLOATING PROPERTY.—Owing to the intermittent nature of certain work of the Department, and the expense consequent upon maintaining a force and plant always ready for work, but without constant employment, it was proposed early in 1877 to sell or lay up part of the floating property, and have the work of dredging done by private parties.

On 20th June, 1877, the Board ordered a part of the property to be sold at public sale, and on 22d of same month ordered all the dredging machines and mud-scows remaining to be laid up.

The tug "Alert," dredges Nos. 1 and 2, dredging mud-scows Nos. 13, 14, 15, 16, 17 and 18, pile-driver No. 4, and the deck scow "Two Sisters," having been sold at public sale, in obedience to above-mentioned order of the Board, the floating property consists at present of the following:

100-ton derrick "City of New York."
10-ton derrick.
Derrick scow "Joe."
Tug "Manhattan."
Dredge No. 3.
Dredge No. 4.
12 dredging mud-scows, Nos. 1 to 12.
8 pile-drivers, Nos. 1, 2, 3, 5, 6, 7, 8 and 9.
8 deck scows, "B," "C," "D," E," "F," "May," "Willie" and "Jim."
Boring machine "Woodcock," and
2 divers' scows.

The derrick "City of New York" is in good working order, no repairs having been made during the year other than those made by the crew and the Department workmen, consisting of painting and fitting graving pieces in the upper parts of the tower timbers and king-post

supports, in places where decay had begun. Having been in the water for nearly seven years, it will be necessary to dock her soon for examination, and possibly for renewal of the sheathing. The derrick has during the year set 56 béton base blocks at various sections for the bulkhead wall, besides having been employed in raising pile-drivers for caulking, righting overturned scows for Police Department, pulling piles, and shifting trusses on Pier Old No. 45 North River.

The ten-ton derrick has been painted and kept in good repair, and has laid all the granite for the bulkhead wall. A boom 56 feet long has been fitted, to enable the derrick to set granite from the inside of the wall.

The derrick scow "Joe" is in good order, ready for service.

The tug "Manhattan" has been docked and cleaned, the hull and upper works painted, and the deck has been caulked. Extensive repairs have been made to the boiler. The tug has done all the towing required by the Department, except for eight days when laid up, and excepting that done by the tug "Alert," in May and June. By reducing the crew to the smallest number consistent with safety, the cost of towing for the last six months, including wages, coal and supplies, and all repairs, has been $5.88 per hour of actual service.

Since the dredging plant was laid up by resolution of the Board of June 22d, no work has been done by it, excepting the excavation of 4,560 cubic yards of material at Pier New No. 1 North River. The dredges have been painted and kept clean, and can be made ready for service at a few days' notice.

It being necessary to remove the above-mentioned quantity of material from the slips at New Pier No. 1 North River with great care and slowness, to avoid injuring the foundations of the sub-piers, and it being found that the prices demanded by private parties for the work were greater than it could be done for by the Department forces and machinery, Dredge No. 3 was put in commission for this job, and, upon its completion, laid up again.

Of the dredging mud-scows, eight, Nos. 5, 8, 10, 11, 12, 15, 16 and

18, have been docked and caulked, and all have been kept in good order. They have been hired to various parties during the year, and at present ten of them are in use by the Union Dredging Company.

The pile-drivers are in good order. Nos. 2, 3, 7, 8 and 9 have been taken out and caulked. The ways of No. 2 have been lengthened to 58 feet, and "inspirators" have been applied to the boilers of Nos. 2, 5, 6, 7 and 9. No. 5, fitted for pile cutting, has sawed off, during the year, 1,979 piles, below water.

The deck scows, "B," "C," "D," "E" and "F," are in good condition, and the "Willie," "May" and "Jim" are still good for such service as is required of them, although they are old and somewhat decayed.

The boring machine, "Woodcock," has done no work during the year except the ten days it was hired to the New York Central & Hudson River Railroad Company. It is now laid up at Gansevoort street yard ready for service.

The two divers' scows are in good order.

SURVEYING PARTY.—In connection with the construction, the work of the surveying party has consisted of soundings for dredging, estimates for dredging, an immediate supervision of the dredging, measurements of rip-rap, small cobble and concrete stone, and of sand as delivered by contractors, soundings, from time to time, upon the stone as placed in the foundation, and lines and levels at the various stages of the work. The base line from Canal street to Warren street has been completed, and stone monuments placed about 300 feet apart, from which surveys have been made of existing structures, piers, bulkheads, &c., with classification of crib and pile-work foundations. Maps of this have been prepared showing the details of the work.

Surveys have been made at various points on the North, East and Harlem Rivers, covering an extent of 13,700 feet of water front, from which maps have been prepared showing existing structures and their position relative to proposed bulkhead lines. A survey was also made

of Hart's Island, in Long Island Sound, with a view to proposed improvements by the Department of Charities and Correction. Estimates and plans were prepared for proposed bulkheads.

Soundings have been taken in two hundred slips on the North, East and Harlem Rivers, aggregating 16,000 soundings, of which 4,000 were in connection with construction, and 12,000 for dredging at leased piers and other purposes. These are properly recorded in this office.

Borings were taken to the bed-rock in slips adjacent to Pier New No. 1, North River, and placed on record, also, occasionally, in other slips on the North and East Rivers, for proposed improvements.

An immediate supervision has been maintained of all dredging done, and daily certificates given for work performed.

In January a regular series of tidal observations was instituted, for the purpose of verifying, after sufficient data shall have been acquired, the planes of mean high water and mean low water, already established, the extreme tides, the duration of the tide below mean low water, and other points of importance in connection with the tide, in its relation to the construction of the wall and piers.

The apparatus is placed in an office which is situated immediately over the water. It consists of a vertical wooden box, reaching from the floor of the office to several feet below mean low water, and is constructed so as to destroy the oscillation due to wave motion, without retarding the flow of the water. In this tube is a metallic float, to which is attached a fine steel wire, which passes up through the floor and over a pulley at the top of the gauge, being kept taut by a counterbalance weight. A brass pointer attached to this wire, rising and falling with the tide, indicates the stage of the tide on a graduated gauge. The readings in feet and hundredths are taken every half-hour, day and night, by the watchman at the section. By means of a pen fastened to the pointer, the extreme tides are marked on a strip of paper attached to the gauge. A permanent record is kept of these observations, and the tidal curves are plotted therefrom. Two of these

gauges are now in operation, one at Christopher street Section, and one at Chambers street Section.

Plans have been prepared for a self recording gauge, which will not only give increased accuracy, but will also obviate the necessity of having a constant observer. It is proposed to have this gauge made and put in operation during the coming year.

FIFTY-FOURTH STREET, EAST RIVER.—A small wooden crib work pier 60 feet wide and 36 feet long, was built during the month of April, under contract, by John Gillies. It was finished on May 1st, 1878.

FIFTY-SEVENTH STREET, NORTH RIVER.—An embankment of earth and stone to inclose a space for the dumping of ashes and other suitable material by the Police Department was commenced August 14th, 1877, at a point about 310 feet westerly of west line of Eleventh avenue on the northerly line of Fifty-sixth street, North River, extending westerly therefrom about 230 feet, and thence parallel to Eleventh avenue across Fifty-seventh street to the southerly line of Fifty-eighth street. The Police Department dumped 1,157 loads therein.

GANSEVOORT STREET YARD.—In September, 1877, the making of the concrete base blocks for the wall was removed from Pier No. 1 to this yard. A platform 240 feet long by 28 feet wide was built on the bulk-head in front of the yard. Pier No. 57, foot of Bogart street, was repaired and strengthened, the shed for storing cement removed here from Pier No. 1, and a small railway and other facilities built. Forty-two (42) base blocks, containing 1,387 cubic yards of concrete, were built, part of which have already been used in the wall, and the remainder will be used during the coming summer.

All the tests of cement purchased by the Department have been made at this yard as usual, and the general store and the blacksmith shop of the Department are also at this yard.

EAST SEVENTEENTH STREET YARD.—At this yard has been received all the granite purchased by contract during the past year for building the bulkhead wall, and from here, after inspection, transferred in scows to the different sections, as required by the progress of the work. Cement has also been stored here, and iron work for the piers, both of which have been issued as required.

A summary of the journal of the work done at each section and at the yards, and also a list of the items of general repairs and of the dredging done, is given in the appendix; and also a schedule of items of work, repairs, &c., done by private parties under my general supervision.

Very respectfully,

Your obedient Servant,

G. S. GREENE, Jr.,

Engineer-in-Chief.

APPENDIX.

SUMMARY OF JOURNAL OF THE WORK DONE DURING YEAR ENDING APRIL 30TH, 1878.

BATTERY SECTION, NEW PIER NO. 1 NORTH RIVER.—May 1st, to August 18th, 1877.—Finished work on the wooden corner buffers at the end of the pier. Pointed the masonry joints in the last four arches. Made twenty-six bêton foundation blocks for the bulkhead wall. Discharged 164 cubic yards of rip-rap under arches Nos. 16 and 17.

August 11th to September 24th.—A crack in the corner of arch No. 3, extending entirely across the pier, was cut out and filled in with mortar.

August 18th to September 1st.—The cement storehouse and the adjoining fence were taken down, and together with all the materials used in the manufacture of the bêton blocks were removed to Gansevoort Street yard.

March 15th to April 11th, 1878.—Removed all the granite mooring posts and replaced them with cast-iron ones, drilled the holes for bolting six of them to the deck by hand, and the holes for the remaining fourteen by the diamond drill.

February 2d to March 30th.—Dredged out 2,180 cubic yards of ashes and mud from the slip north of the pier, and from the south side 2,340 cubic yards. After the dredging was finished, made an examination by the aid of divers with reference to blasting out the rock, so as to give an uniform depth of at least twenty-five feet.

April 22d to April 30th.—Removed the wooden deck and prepared the pier for receiving an asphalt pavement.

Chambers Street Section.—December 4th, 1877.—Commenced removal of outer end of old Pier No. 30 North River, tearing away 108 feet to allow Erie Railroad Company to repair ferry racking—finished December 7th.

December 7th.—Commenced removal of outer end of old Pier No. 32, North River, for a distance of 126 feet. The Morris and Cumings Dredging Company commenced December 17th, 1877, removing old crib-work (on the site of the part removed), and finished January 8th, 1878, having removed 1,764 cubic yards of crib-work and 1,862 cubic yards of mud, and obtaining an average depth of twenty-five feet below mean low water.

December 14th.—Two test piles were driven and pulled out, site of bulkhead wall between old Piers Nos. 29 and 30, North River.

December 31st.—The Morris and Cumings Dredging Company commenced work for bulkhead wall between old Piers Nos. 29 and 30, North River, for a length of 165 feet by 90 feet in width, and finished January 19th, 1878, having removed 14,957 cubic yards of mud, and obtaining an average depth below mean low water of thirty-five feet. Commenced cutting into old Pier No. 30 (in line of new wall) to allow of dredging up to line of old crib-work underneath—finished January 7th, 1878.

January 9th, 1878.—The building of a crib 23½ feet in length (parallel to line of wall) 35 feet in width or transversely, and 30 feet in height, to retain stone filling and earth in rear of new wall, at the south end was commenced this day, and finished and placed in position January 22d, 1878.

January 22d.—The stone filling over area of new wall was commenced and finished March 4th, 1878, 2,540 cubic yards of cobbles and 1,959 cubic yards of rip-rap having been deposited, bringing the filling up to an average of twenty-three feet below mean low water. Being unable to procure stone filling, the work was entirely suspended from February 2d to February 14th, 1878.

March 5th.—Commenced driving piles for new wall at the north end of section, and to date (April 30th, 1878) 405 vertical and 51 bracing piles have been driven.

March 23d.—Cobbles between piling and rip-rap in front and rear of same brought up to bottom of binding frames, or eighteen feet below mean low water; 1,012 cubic yards of cobbles and 863 cubic yards of rip-rap having been used.

April 3d.—Put down and fastened first binding frame, and to date five frames are in position and fastened.

April 27th.—The Union Dredging Company commenced dredging for ferry platform between old Piers Nos. 29 and 30, and to date have removed 3,770 cubic yards of mud.

Canal Street Section.—May 5th, 1877.—Finished discharging cobbles on embankment in the rear of the wall.

May 5th to June 5th.—Placed backing log on the coping.

July 2d to 10th.—Laid new plank roadway between West street and Pier New No. 34.

To November 27.—Received 27,929 loads of earth filling in the rear of the wall.

Spring Street Section.—September 15th to November 20th.—Extended Pier New No. 35, 62 × 161 feet.

October 5th to 27th.—Built approach to Pier New No. 35 beyond bulkhead.

October 29th to November 1st.—Cut through Pier Old No. 43.

October 30th to November 16th.—Dredged for wall.

November 17th.—Commenced putting in cobbles and rip-rap; to date, 4,411 yards deposited.

December 11th, 1877, to April 4th, 1878.—Drove piles for wall, for a length of 124.19 feet measured to centre of last row.

January 8th to April 23d, 1878.—Set ten béton blocks a length of 120.94 feet.

February 18th.—Commenced capping, and to date 323 feet of longitudinal and 14 transverse caps have been fitted.

Charlton Street Section.—October 1st to December 8th, 1877.—Extended Pier New No. 37, 70.8 × 140.5 feet.

December 8th to 21st.—Removed 160 feet of shed on Pier Old No. 45.

December 13th to 18th.—Dredged at end of Pier New No. 37.

December 22d, 1877, to January 29th, 1878.—Erected shed on Pier New No. 37.

January 17th to February 9th, 1878.—Removed 151 feet of Pier Old No. 45.

February 12th to March 14th.—Dredged for wall foundation 170 feet in length.

March 11th.—Commenced discharging stone filling, and to date 5,539 cubic yards rip-rap and cobbles have been deposited.

April 5th.—Commenced driving piles for wall foundation, and to date 196 piles have been driven.

King Street Section (Old).—September 21st to 22d.—Set coping, making a length of 138.36 feet; received 10,073 loads of filling, of which 6,889 were from the Street Cleaning Bureau, Department of Police.

King Street Section (New).—May 12th, 1877.—Commenced filling in rear of the wall and to date 22,446 loads of filling have been discharged, 5,006 of which were from the Street Cleaning Bureau, Department of Police.

May 26th.—Finished setting granite 122.09 feet on "E" course.

May 29th.—Finished laying deck on capping.

June 8th.—Finished sewer box, 2′ 6″ × 3′ 4″ section, 166 feet long.

June 27th to July 2d.—Took up deck of Pier Old No. 46.

August 14th, 1877, to April 2d, 1878.—Dredged for Pier New No. 38 and in slips adjoining.

August 31st to September 25th, 1877.—Contractor removed shed and that part of Pier Old No. 46 beyond the wall.

September 22d to 29th.—Set coping for a length of 41.53 feet.

October 3d to 18th.—Removed the inshore end of Pier Old No. 46.

October 5th, 1877, to February 27th, 1878.—Contractor I. E. White built Pier New No. 38, 75 × 587 feet.

Lower Clarkson Street Section.—May 21st to June 21st, 1877.—Set the granite and backed it with concrete and rubble blocks a length of 149.7 feet on "E" course. Finished.

June 6th.—Commenced receiving filling, and to date 24,507 loads have been received, 12,646 of which were from the Street Cleaning Bureau, Department of Police.

August 8th to 28th.—Removed the platform adjoining the old bulkhead.

September 26th to 29th.—Set coping for 152.91 feet in length.

October 25th to November 5th.—Laid backing logs on coping.

Houston Street Section.—May 14th to 22d.—Set nine béton blocks, a length of 109.89 feet.

May 22d.—Finished pile work; length 109.83 feet.

May 26th to September 4th.—Removed inshore end of Pier Old No. 47.

June 2d to 21st.—Built a sewer, 2′ 8″ × 3′ 6″ section, 182.39 feet long.

June 9th.—Finished the capping.

June 19th to July 10th.—Set granite 108.57 feet in length on "E" course.

July 6th.—Commenced filling in the rear of the wall, and to date 34,809 loads of filling have been received, 2,351 of which were discharged by the Street Cleaning Bureau, Department of Police.

July 27th.—Contractors T. & A. Walsh finished Pier New No. 39, 75′ × 582′.

October 8th to 10th.—Set coping a length of 34.81 feet.

February 5th to 9th, 1878.—Laid plankway to Pier New No. 39.

February 9th to March 5th.—Dredged slips alongside Pier New No. 39.

Upper Clarkson Street Section.—July 5th to August 31st, 1877.—Set granite 27.29 feet on "E" course.

July 24th.—Contractors McIntire Bros. finished platform 100 × 50 feet in rear of wall.

August 7th to 30th.—Put in rip-rap and cobbles on and in rear of platform, and to date 1,983 cubic yards have been deposited.

August 25th.—Commenced filling in rear of wall, and to date 1,195 loads have been discharged.

October 10th to 11th.—Set coping a length of 22.20 feet.

Leroy Street Section.—June 6th to 20th.—Moved the N. J. C. R. R. Ferry house 150 feet easterly to make way for building the wall.

June 14th to March 2d, 1878.—Fitted capping.

June 20th to 29th.—Took up 120 feet of N. J. C. R. R. Ferry platform.

June 26th, 1877, to February 16th, 1878.—Set 36 béton blocks a length of 429.64 feet.

August 4th, 1877, to April 6th, 1878.—Finished setting granite, a length of 428.03 feet on "E" course.

September 1st to 11th, 1877.—Built approach to Pier New No. 41.

September 12th to 17th.—Cut through Pier Old No. 49.

September 25th.—Commenced filling in rear of wall, and to date 52,460 loads have been discharged, 9,314 of which were from the Street Cleaning Bureau, Department of Police.

October 29th.—Finished dredging for wall 429.64 feet in length.

November 21st to 23d.—Set coping a length of 103.72 feet.

January 11th to February 9th, 1878.—Connected N. J. C. R. R. Ferry platform with wall.

January 14th to February 23d.—Built a sewer box 2′ 3″ × 3′ 6″ section, 180 feet long, foot of Leroy street.

February 25th.—Finished driving piles for wall foundation.

March 25th to 30th.—Moved back to line of wall N. J. C. R. R. Ferry house.

March 25th to April 10th.—Connected Pier New No. 41 with wall.

April 9th.—Commenced dredging for Pier New No. 40.

April 15th to 19th.—Laid plankway to Pier New No. 41.

Morton Street Section.—June 26th, 1877.—Set one béton block, making a length of 151.33 feet. Béton finished.

July 28th to September 5th.—Built sewer foot of Morton street, 1′ 3″ × 1′ 3″ section, 197 feet long.

August 7th.—Finished setting granite, making a length on "E" course of 172.31 feet.

November 21st.—Finished setting coping, making a length of 76.33 feet.

January 23d to February 9th, 1878.—Dredged slip south of Pier New No. 42.

Christopher Street Section.—June 4th to 6th, 1877.—Drove and secured 6 spring piles at Pier New No. 47.

July 31st to August 6th.—Dredged slip north side Pier New No. 45.

July 31st to August 7th.—Dredged slip south side Pier New No. 46.

September 7th to 22d.—Dredged slip north side of Pier New No. 46.

October 15th to 31st.—Painted roof of shed of Pier New No. 43.

November 22d to December 19th.—Painted sheds, excepting roofs, of Piers New Nos. 43 and 46.

Gansevoort Street Yard.—From September 10th to October 1st, 1877.—Strengthened Pier 57 North River, foot of Bogart street, to receive the broken stone, sand and cement required in the construction of the concrete base blocks; built a platform 240 feet by 28 feet wide, between Piers Nos. 57 and 58 (old numbers) North River. This plat-

form consisted of 16 sections, each capable of holding three base blocks.

October 9th to December 27th.—Built 42 base blocks, containing 1,387 cubic yards of concrete. Erected a shed, on Pier Old No. 57, North River, 80 feet long by 26 feet wide, for storing cement. Built portable railroad and cars for the more convenient and rapid handling of broken stone and sand required in making base blocks, and made three new wooden moulds for concrete base blocks.

Besides the above, all the cement purchased by Department was tested at this yard, and most of the blacksmith's work and tool-sharpening was done here.

All general stores purchased by Department were received and issued here.

East Seventeenth Street Yard.—This yard has received all the granite purchased by contract during the year for building the bulkhead wall, and from this point it has been transferred in scows, to the different sections, as required by the progress of the work. Cement has also been stored here, and iron work for the piers, both of which are issued, as at Gansevoort Street Yard, when required.

SUMMARY OF GENERAL REPAIRS FOR THE YEAR ENDING APRIL 30TH, 1878.

East River.

May 4th to 7th, 1877.—Pier No. 62 East River; Sheathed deck 776 square feet. Put on 3 fenders and 2 mooring posts.

April 19th to May 8th.—Bulkhead between Piers Nos. 60 and 61, East River; filled excavation in rear of bulkhead and relaid pavement.

May 8th to 10th.—Pier at Twenty-sixth street, East River; drove and fastened 4 oak spring piles, put in 6 chocks and set 2 mooring posts.

May 11th to 12th.—Charity Hospital dock at Blackwell's Island; drove and chocked 4 spring piles.

May 14th to 16th.—Store House dock Blackwell's Island; drove, chocked and fastened 6 spring piles.

May 18th to 24th.—Platform at One Hundred and Twenty-ninth street and Second avenue; laid deck 598 square feet with 5 inches yellow pine, laid backing logs, side and cross caps, drove 5 spring and 5 fender piles, and put on 2 mooring cleats.

May 21st to 26th.—Pier No. 20 East River; sheathed deck 1,672 square feet, drove and chocked 6 spring piles, put on close fenders and new corner band.

May 17th to 18th.—Pier at Randall's Island; drove, chocked and fastened 2 oak spring piles.

May 24th to 28th.—Pier at Twenty-third street, East River; drove and fastened 18 fender piles, and put on 2 5-inch oak fenders.

June 7th to 13th.—Public bath at Pier No. 51, East River; built 4 float fender stages and moored them to bath with chains.

June 7th to 13th.—Public bath at Fifth street, East River; built 4 float fender stages and moored them to bath with chains.

June 7th to 13th.—Public bath at Thirty-seventh street, East River; built 4 float fender stages, and moored them to bath with chains.

June 8th to 15th.—Pier No. 23 East River; repaired broken corner band.

June 15th to 16th.—Pier No. 12 East River; sheathed deck 762 square feet.

June 18th to 19th.—Pier No. 51½ East River; sheathed deck 700 square feet.

June 20th to 23d.—Pier No. 52 East River; put on 6 half-round white oak fenders.

June 21st to 27th.—Pier at Thirty-third street, East River; put on 14 half-round white oak fenders, drove and fastened 3 spring piles, and sheathed deck 1,105 square feet with 4-inch spruce.

June 27th to 29th.—Pier at Third street, East River; put in new

side cap, drove and fastened 1 spring pile, and put on 9 5-inch oak fenders.

June 21st to 30th.—Pier No. 53 East River; put on 9 half-round white oak fenders.

June 29th to 30th.—Bulkhead at Rivington street, East River; put on 4 half-round white oak fenders.

June 30th to July 5th.—Public bath at Fifth street, East River; repaired and refastened float stages.

July 2d to 6th.—Public bath at Thirty-seventh street, East River; repaired and refastened float stages.

June 30th to July 9th.—Public bath at Pier No. 51 East River; repaired and refastened float stages.

July 12th to 23d.—Pier No. 20, East River; refastened spring piles.

July 27th to August 3d.—Pier at Twenty-sixth street, East River; patched deck 54 square feet, and sheathed deck 1,838 square feet.

July 30th to August 3d.—Pier at Thirty-third street, East River; spliced and drove 7 oak fender piles, put in chocks and raised backing log.

August 4th to 6th.—Pier No. 12 East River; replaced broken mooring post.

August 13th to 17th.—Pier No. 62 East River; drove and chocked 5 fender piles, set in 1 mooring post, and put on fenders, braces and cleats.

August 18th to 21st.—Pier at Thirty-third street, East River; patched 67 square feet of deck, and laid 1,622 square feet of 4-inch spruce sheathing.

August 21st to 22d.—Public bath at Thirty-seventh street East River; repaired float fender stages.

August 21st to 23d.—Store-house dock at Blackwell's Island; put on side caps, backing log and patched deck 513 square feet.

September 3d to 5th.—Insane Asylum wharf at Ward's Island; drove 3 spring piles and laid 1,402 square feet of 3-inch spruce sheathing.

September 6th to 8th.—Platform at One Hundred and Twenty-ninth

street and Second avenue; put in 12 rangers and laid 584 square feet of deck.

August 10th to September 12th.—Pier No. 61, East River; drove 15 piles, put on 32 half-round fenders, and patched deck 32 square feet.

September 13th to 14th.—Pier No. 55, East River; drove, chocked and fastened 3 oak spring piles.

September 17th to 19th.—Hart's Island dock; drove 3 spring piles, put on 1 yellow pine fender and patched deck 60 square feet.

October 2d to 5th.—Pier No. 62 East River; put on 1 corner band and sheathed deck 1,980 square feet with 4-inch spruce plank.

October 5th to 11th.—Pier No. 12 East River; sheathed deck 4,409 feet with 4-inch spruce.

October 12th.—Public bath at Pier No. 51 East River; unmoored and stored float stages.

October 13th.—Public bath at Fifth street, East River; unmoored and stored float stages.

October 15th to 19th.—Public bath at Thirty-seventh street, East River; unmoored and stored float stages.

October 12th.—Pier at Twenty-third street, East River; fastened spring piles.

October 11th to 15th.—Pier at Forty-sixth street, East River; patched deck 272 square feet.

October 15th to 17th.—Pier No. 63 East River; drove, chocked and fastened 5 fender piles.

October 15th to 26th.—Charity Hospital dock, Blackwell's Island; drove 2 piles and rebuilt crib, laid 680 square feet of sheathing and planked gangway.

October 30th to 31st.—Pier at Thirty-seventh street, East River; built up gangway and put on backing pieces.

November 7th to 12th.—Bake-house dock, Blackwell's Island; drove and chocked 10 piles and laid 1,700 square feet of platform.

November 13th.—Pier No. 51 East River; built up and closed in gangway.

November 30th to December 3d.—Pier at Thirty-third street, East River; drove, chocked and fastened 4 yellow pine piles and laid 633 square feet of sheathing.

December 10th.—Pier at Fortieth street, East River; patched deck 14 square feet.

December 6th to 11th.—Bulkhead at Forty-eighth street, East River; rebuilt platform.

December 13th to 15th.—Pier at Thirty-third street, East River; fastened on 2 wooden cleats.

December 13th to 17th.—Pier at Twenty-sixth street, East River; sheathed roadway and deck 1,335 square feet.

November 17th to 18th.—Bulkhead at Twenty-ninth street, East River; rebuilt bulkhead.

January 3d, 1878.—Platform at One Hundred and Twenty-ninth street and Second avenue; fastened 2 oak mooring cleats on backing log.

December 26th, 1877, to January 25th, 1878.—Pier No. 6 East River; rebuilt 105 feet of bulkhead, drove 2 spring piles, put on 8 fenders, and relaid 970 square feet of platform.

February 22d to 25th.—Pier at One Hundred and Seventeenth street, East River; drove and chocked 12 spring piles, and laid 20 feet of backing log.

February 25th to March 7th.—Pier at One Hundred and Sixth street, East River; drove 11 piles, patched deck 1,354 square feet, laid 820 square feet of sheathing, 80 feet of backing log, 84 feet of side caps, and 162 square feet of close fenders.

April 1st to 13th.—Pier No. 44 East River; raised deck, drove 18 piles, put on 21 5-inch yellow pine fenders, 36 half-round white oak do., 3 cross caps, 36 feet of backing log, 1 corner band, patched deck 246 square feet, and sheathed do. with 5,206 square feet 3-inch yellow pine.

March 28th to April 10th.—Pier No. 46 East River; patched deck 49 square feet, put on 11 5-inch yellow pine fenders, 10 half-round white oak do., 1 corner band, and laid 2,964 square feet of 3-inch yellow pine sheathing.

March 20th to April 20th.—Pier No. 7 East River; laid 52 feet of backing log, 52 feet of side caps, 11 piles under caps, 16 fender piles, 6 mooring piles, put on 19 white oak fenders, and laid 9,041 square feet of 3-inch yellow pine sheathing.

North River.

May 7th to 8th.—Pier Old No. 42 North River; patched deck 52 square feet.

May 16th to 19th.—Pier at Twenty-eighth street, North River; sheathed and patched deck 1,925 square feet.

June 6th to 7th.—Pier at Thirteenth street, North River; drove and chocked 4 mooring piles.

June 7th to 14th.—Public bath at Bethune street; built and moored to bath 4 float stages.

June 7th to 14th.—Public bath at Fifty-first street, North River; built and moored to bath 4 float stages.

June 18th to 25th.—Pier at Twenty-sixth street, North River; drove 1 pile, put on 11 half-round fenders, 1 corner band, and sheathed deck 6,260 square feet.

June 25th to 28th.—Pier at Thirty-fourth street, North River; put on 5 6-inch oak fenders, drove 3 white pine piles, and patched deck 14 square feet.

July 10th to 11th.—Public bath at Bethune street, North River; repaired float stages.

June 23d to July 12th.—Pier at Fortieth street, North River; put on 14 white oak fenders, 1 spruce do., 120 square feet of close planking on outer end of pier, and patched 168 square feet of deck.

June 29th to July 27th.—Pier at Forty-sixth street, North River; put

on 1 white oak fender, 270 square feet of close planking, and sheathed 3,176 feet of deck.

June 12th to July 27th.—Pier at Thirtieth street, North River; put on 20 half-round fenders, drove 11 piles, put on 154 square feet of close plank, and patched deck.

July 28th.—Pier at Forty-seventh street, North River; patched deck 84 square feet.

June 26th to July 30th.—Pier at Thirty-fifth street, North River; put on 1 8-inch oak fender, and patched deck, 364 square feet.

June 1st to August 17th.—Pier at Fifty-seventh street, North River; patched deck 435 square feet, and laid 10,555 square feet of 4-inch spruce sheathing.

August 7th to 17th.—Pier at Bethune street; drove 7 white pine piles, put on 21 half-round fenders, and patched 460 feet of deck.

August 23d to 25th.—Pier at Thirty-fifth street, North River; put on mooring cleat and patched 278 feet of deck.

September 13th.—Pier at Thirty-fifth street, North River; patched 18 square feet of deck.

September 14th.—Pier at Thirty-fourth street, North River; patched 6 square feet of deck.

September 24th to 27th.—Pier at Fifty-seventh street, North River; drove 2 piles and put on 19 half-round fenders, and laid 2,084 square feet 4-inch spruce sheathing.

September 26th.—Pier at Twenty-sixth street, North River; patched deck 43 square feet.

September 20th to 29th.—Pier at Fortieth street, North River; patched deck 178 square feet.

September 26th to 29th.—Pier at Thirtieth street, North River; patched deck 267 square feet, and laid 456 square feet of sheathing.

October 10th.—Pier at Thirty-fifth street, North River; patched deck 143 square feet with 5-inch white pine.

October 11th.—Pier at Fifty-seventh street, North River; patched deck 80 square feet.

October 10th.—Public bath at Fifty-first street, North river; unmoored and stored float stages.

October 11th.—Public bath at Bethune street; unmoored and stored float stages.

October 19th.—Pier at Thirtieth street, North River; repaired 108 square feet of deck.

September 27th to October 29th.—Pier at Forty-sixth street, North River; patched deck 290 square feet, and laid 236 square feet of sheathing.

October 22d to November 5th.—Pier No. 1, North River; raised backing log.

November 26th.—Pier at Thirty-fourth street, North River; fastened spring piles.

November 26th.—Pier at Sixteenth street, North River; patched deck.

November 14th to December 6th.—Pier No. 1, North River; drove and fastened 6 oak and 2 pine piles, fastened backing-logs, and put on 4 cleats.

December 4th to 6th.—Pier at Thirtieth street, North River; patched deck 180 square feet, with yellow pine and spruce plank.

December 8th.—Pier at Thirty-fourth street, North River; patched 24 square feet of deck, 5-inch yellow pine.

December 7th to 8th.—Pier at Thirty-fifth street, North River; patched 192 square feet of deck with 5-inch yellow pine and old plank.

December 11th.—Pier at Fifty-seventh street, North River; patched deck 44 square feet, with 5-inch yellow pine, and 75 square feet with 4-inch spruce.

November 5th to December 13th.—Bulkhead at West Eleventh street; rebuilt bulkhead about 90 feet, and put on 20 half-round fenders.

December 10th to 12th.—Pier at Forty-sixth street, North River; patched deck 64 square feet with 5-inch yellow pine, and 88 square feet with 4-inch spruce.

October 31st to December 14th.—Roadway to Fifty-seventh street, North River; tore up and rebuilt roadway.

December 28th to January 2d.—Pier at Twenty-eighth street, North River; patched and sheathed 446 square feet.

February 8th to 9th.—Pier at West Eleventh street; set in new mooring post and patched 22 feet of deck.

January 31st to February 18th.—Pier at Thirty-fourth street, North River; laid 812 square feet 3-inch yellow pine.

February 20th to 21st.—Pier at One Hundred and Fifty-fifth street, North River; drove, chocked, and fastened 3 spring piles.

February 21st.—Pier at One Hundred and Thirty-eighth street, North River; drove and fastened 2 fender piles.

February 23d to 25th.—Pier at One Hundred and Thirty-first street, North River; straightened mooring post, and drove and fastened 15 fender piles.

February 11th to 27th.—Pier at Fortieth street, North River; drove and chocked 3 spring piles, and laid 80 feet of backing-log, patched 111 square feet of deck, laid 4,821 square feet of 3-inch yellow pine sheathing, and set 6 mooring posts,

March 5th.—Bulkhead, south side Little Twelfth street; put on 6 half-round fenders.

March 6th.—Bulkhead at Bank street; filled hole in rear of bulkhead.

February 9th to March 7th.—Pier No. 34 North River; drove 29 piles, put on 35 half-round fenders, put in rangers, cross and side caps, 130 feet of backing-log, and patched and sheathed 4,666 square feet of deck.

February 19th to March 9th.—Pier at Fifteenth street, North River; drove 7 piles, put on 5 half-round fenders, and laid 4,816 square feet 3-inch yellow pine sheathing.

March 9th to 13th.—Pier No. 58 North River; put on 15 half-round fenders, and patched 29 square feet of deck.

February 19th to March 14th.—Pier at Horatio street; put on 16 half-round fenders, 2 5-inch yellow pine do., and laid 4,121 square feet -inch yellow pine sheathing.

March 15th.—Pier at Jane street; refastened close fenders.

March 15th to 16th.—Pier at Bethune street; put on 1 half-round fender and patched 90 feet deck.

February 20th to March 18th.—Pier at West Eleventh street; put on 1 5-inch yellow pine and 13 half-round fenders, 32 feet of backing log, and patched 65 square feet of deck with 5-inch yellow pine.

March 8th to 19th.—Pier No. 1, North River; repaired backing-log and drove 2 white oak spring piles.

February 26th to March 20th.—Pier at Forty-seventh street, North River; put on 14 half-round fenders, 6 5-inch yellow pine do., patched deck 460 square feet with 4-inch spruce, sheathed deck 1,540 square-feet with 4-inch spruce, and 1,272 square feet with 3-inch yellow pine

March 1st to 22d.—Bulkhead between Piers Nos. 52 and 54 North River; patched deck 1,447 square feet with 3-inch yellow pine.

March 21st to 25th.—Pier at One Hundred and Twenty-ninth street, North River; patched deck 48 square feet, and laid 4,381 square feet of 3-inch yellow pine sheathing.

March 21st to 26th.—Pier No. 22 North River; drove 14 spruce piles.

February 19th to March 27th.—Pier at Little Twelfth street; laid 3,551 square feet 3-inch yellow pine sheathing, 66 square feet 5-inch yellow pine close fenders, 25 half-round white oak do., drove 1 spruce pile, and put on new corner band.

March 8th to 27th.—Bulkhead, East side Pier New No. 47; drove 1 spruce pile and put on 1 half-round white oak and 6 5-inch yellow pine fenders.

March 19th to 28th.—Pier at Sixteenth street; laid 1,340 square feet of 3-inch yellow pine sheathing.

March 28th to 30th.—Pier at Thirteenth street; drove 2 spruce piles, put on 20 half-round fenders, patched 38 square feet of deck, replaced caps and refastened old fenders.

March 11th to April 16th.—Pier No. 54, North River; patched deck 2,906 square feet, relaid 9,577 square feet of sheathing, put on 26 half

round fenders, 160 square feet of close planking, 5-inch yellow pine, laid 120 feet of backing-log, and put on 6 yellow pine cleats.

April 17th.—Pier New No. 47; refastened cleat.

April 17th.—Bulkhead, south side Little Twelfth street; bolted on 2 wooden cleats.

April 24th.—Pier at Forty-seventh street, North River; patched deck.

April 4th to 30th.—Cleaned piers at Thirtieth, Thirty-fifth, Bogart, Forty-seventh and Forty-sixth streets.

March 9th, 1878.—Contract made with Moses Engle to repair piers at Thirtieth, Thirty-fifth, Forty-sixth and Fifty-seventh streets, North River.

March 25th to April 27th.—Pier at Thirtieth street was sheathed with 4-inch spruce for an area of 31,824 square feet.

Work was commenced on Pier at Forty-sixth street, April 27th, and on Pier at Fifty-seventh street, April 29th.

Statement of Dredging from May, 1, 1877, to April 30, 1878.

		Cubic Yards.		Totals.	
		Mud.	Crib-work.	Mud.	Crib-work.
	By the Morris & Cumings Dredging Co.:				
1877.	*North River.*				
July.	Leroy st. wall	11,543			
	Pier new No. 40		1,863	11,543	1,863
Aug.	Slip between Piers new Nos. 45 and 46	6,652			
	Pier new No. 38, and slips adjacent	4,210		10,862	
Sep.	Pier new No. 38, and slips adjacent	21,211	271		
	Pier new No. 46, north side	5,070			
	Leroy st. wall	5,345		31,626	271
Oct.	Pier new No. 38, and slips adjacent	12,301	2,796		
	Spring st. wall	1,689			
	Leroy st. wall	407		14,397	2,796
Nov.	Dump board at 21st st.	2,261			
	Spring st. wall	6,881	952		
	Pier at 11th st., south side, and bulkhead	6,019		15,161	952
Dec.	Extension to Pier new No. 37	4,908			
	Removing outer end, Pier old No. 32		1,689		
	Dump board at 12th st.	1,498			
	Chambers st. wall	739		7,145	1,689
1878.					
Jan.	Chambers st. wall	14,218			
	Removing outer end, pier old No. 32	1,862	75		
	Pier new No. 42, south side	1,993		18,073	75
	Carried forward	.....	.....	108,807	7,646

Statement of Dredging from May 1, 1877, to April 30, 1878.—*Continued.*

		Cubic Yards.		Totals.	
		Mud.	Crib-work.	Mud.	Crib-work.
1878.	Brought forward	.....	.....	108,807	7,646
Feb.	Charlton st. wall	6,889	1,500		
	Pier new No. 39	23,935			
	Pier new No. 42, south side	3,771		34,595	1,500
Mch.	Pier new No. 39	3,865			
	Charlton st. wall	8,511	1,280		
	Pier old No. 34	4,043			
	Pier new No. 38	9,510		25,929	1,280
April.	Pier new No. 38	2,047		2,047	
	Total, North River			171,378	10,426
1877.	*East River.*				
Nov.	Dumping Pier No. 37	1,048			
	Dump board at 46th st	785		1,833	
Dec.	Dump board at 22d st	3,976		3,976	
	Total, East River			5,809	
	Total dredging by the Morris & Cumings Dredging Co.			177,187	10,426
	By the Union Dredging Co. *North River.*				
1878.	Pier at 17th st	2,128			
April.	Pier at 18th st	843			
	Pier new No. 40	18,126			
	Dump board at Laight st	1,718			
	Pier at 13th st., north side	272			
	Bulkhead at 14th st	494			
	Pier at 15th st	1,090			
	Pavonia Ferry slip	3,760		28,431	
	Total dredging by Union Dredging Co.			28,431	

Statement of Dredging from May 1, 1877, to April 30, 1878.—*Continued.*

		Cubic Yards.		Totals.	
		Mud.	Crib-work.	Mud.	Crib-work.
1878.	Brought forward....	.....	.....	205,618	10,426
	Dredged by Department Machines.				
1877.	*North River.*				
May.	Pier at 37th st., north side..	1,200			
	Dump board at 21st st., north side.....	1,000			
	Pier at 16th st., north side..	3,500			
	Bulkhead between 20th and 21st sts.....	1,600			
	Dump board at Laight st...	2,715		10,015	
June.	Dump board at Laight st...	400		400	
1878 Feb.	Pier new 1..... ..	2,480		2,480	
March.	Pier new 1.....	2,080		2,080	
	Total North River....			14,975	
1877.	*East River.*				
May.	Pier at 23d st.....	1,400		1,400	
	Total, East River....			1,400	
	Total dredged by Department machines.....			16,375	
	Total dredging for the year.			221,993	10,426

Granite (Rough and Cut) on Hand at the East 17th Street Yard, May 1, 1878.

	On Hand May 1, '77. Cubic feet.	Received during Year.	Transferred during Year.	On Hand May 1, '78. Cubic feet.	Rate.	Amount.
Headers and Stretchers, old lot (cut).....	9775.9	390.2	6968.3	3197.8	$1 30	$4,157 14
Headers and Stretchers, old lot (rough).....	1446.3	.....	1235.0	211.3	39	82 40
Coping cut.....	5985.0	.....	4560.0	1425.0	1 87	2,664 75
Headers and Stretchers, new lot (Tillson)....	889.26	13,819.38	9988.47	4720.17	62	2,926 50
Headers and Stretchers, new lot (Tillson)....	.....	1249.23	494.19	755.04	40	302 02
Headers and Stretchers, new lot (Hogan)....	.....	164.73	.....	164.73	63	103 57
Voussoirs.....	845 87	.....	.....	845.87	1 95	1,649 44
Spandrel and End Stone.....	665.02	.....	.....	665.02	1 80	1,197 03
Corner, End and Key Stones.....	650.0	.....	.....	650.0	2 01	1,306 50
Headers and Stretchers, fine cut.....	306.58	.....	.....	306.58	1 11⅑	340 64
Fine Cut, part rough.....	483.0	.....	39.26	444.64	1 11⅑	494 01
Rough.....	739.39	84.48	.....	823.87	60	494 31
Rubble Blocks.....	21.0	.....	21.0	.....	.....	.....
						$15,718 34

GANSEVOORT STREET YARD.

NEW YORK, July 24, 1878.

To amount of Stock on hand, Purchased, Fabricated and Issued from Gansevoort Street Yard, from May 1, 1877, *to April* 30, 1878.

Stock on hand, May 1, 1877		$10,560 95
Purchased from May 1, 1877, to April 30, 1878		26,340 45
Fabricated (consisting of 42 Béton Blocks)		13,191 94
Total to be accounted for		$50,093 34
Issued to the following Sections, &c.:		
Floating Property	$2,833 31	
King Street Section	420 57	
Pier No. 1 North River	580 28	
Canal Street Section	54 55	
East 17th Street Yard	99 17	
Leroy Street Section	3,143 32	
General Repairs	1,486 68	
Christopher Street Section	894 89	
Houston Street Section	1,245 53	
Clarkson Street Section	1,543 33	
Morton Street Section	23 14	
Dump 56th and 58th Streets, N. R.	16 82	
Department's Office	19 90	
Spring Street Section	1,135 78	
Charlton Street Section	492 57	
Chambers Street Section	2,966 99	
Carried forward	$16,956 83	$50,093 34

Brought forward.....	$16,956 83	$50,093 34
Gansevoort Street Yard, &c.:		
Office, Yard, &c., &c.....	378 16	
Platform Account.....	1,569 25	
Cement Shed.....	283 53	
Old Pier No. 59 North River.....	113 78	
New Moulds....	255 00	
Railroad.....	437 37	
Repairing Account.....	3 52	
General Plant.....	97 77	
Material Account.....	9,598 16	
Total Issues	.....	29,693 37
To Balance of Stock on hand, May 1, 1878.....		$20,399 97

Total amount of Pay-roll from May 1, 1877, to April 30, 1878, from Gansevoort Street Yard.....	.. ..	$13,793 49
Divided as follows:		
Office, Yard, &c., &c.....	$4,116 66⅙	
Roofing Store House.....	35 20	
Material from Pier No. 1 North River..	119 90	
Platform Account.....	1,203 76	
Cement Shed.....	566 62	
New Moulds.....	659 64	
Railroad	430 73½	
Old Pier No. 59 North River.....	159 80½	
Old Moulds, &c.....	54 97	
Bêton Blocks.....	3,593 77⅚	
Carried forward.....	$10,941 07	$13,793 49

Brought forward.....	$10,941 07	$13,793 49
Floating Property.....	898 22½	
Canal Street Section.....	28 37½	
King Street Section....	366 17½	
Leroy Street Section.....	372 10	
General Repairs.....	167 12½	
East 17th Street Yard.....	22 55	
Pier No. 1 North River.....	284 32	
Houston Street Section.....	82 50	
Clarkson Street Section	47 37½	
Christopher Street Section.....	120 40	
Morton Street Section.....	60 62½	
Department's Office.....	152 49½	
Spring Street Section.....	127 95	
Charlton Street Section.....	49 95	
Dump 56th and 58th Streets, N. R....	4 78	
Chambers Street Section.....	67 47½	
	$13,793 49	$13,793 49

LIST OF WORK DONE BY PRIVATE PARTIES UNDER SUPERVISION OF THE ENGINEER-IN-CHIEF, BY ORDER OF OR UNDER PERMIT FROM THE BOARD OF DOCKS.

Erection of platform at foot Twenty-third street, North River.

Erection of platform and shed between Thirty-fifth and Thirty-sixth streets, East River.

Construction of a bulkhead between Fifty-sixth and Fifty seventh streets, East River.

Filling north of foot of Forty-ninth street, East River.

Erection of a shed on Pier No. 35, North River.

Repairs made to half of Pier No. 20, East River.

Changing of the spurs on Pier No. 34 North River.

Insertion of 6-in. drain pipe between Piers Nos. 38 and 39 North River.

Insertion of a 6-in. drain pipe south of Delaney street, East River.

Erection of a platform on Pier at Fifty-first street, North River.

Erection of a shed on bulkhead north of Pier No. 28, North River.

Erection of a platform on bulkhead at Perry street, North River.

Erection of a shed on Pier No. 17, East River.

Erection of a platform Pier at Thirty-fifth street, North River.

Erection of a platform scale on Pier No. 18, East River.

Erection of a shed on (new) Pier No. 39, North River.

Extending platform at foot of Twenty-third street, East River.

Insertion of an 8-in. drain pipe at Twenty-fifth street, North River.

Erection of a platform at Pier at Fifty-seventh street, North River.

Erection of a wooden awning, Pier No. 22, East River.

Construction of a platform at Pier (old) No. 43, North River.

Completion of a bulkhead between Forty-second and Forty-third streets, East River.

Erection on piles of an extension of Pier at Thirty-ninth street, East River.

Erection of a platform south of Pier No. 39 (old number), North River.

Making a gangway at Pier No. 57 East River.

Dredging of slip north side of Pier (new) No. 46, North River.

Repairs to Piers Nos. 2, 4 and 7, East River.

Construction of a roadway between Forty-fourth and Forty sixth streets, East River.

Widening passenger walk at Pier No. 24, East River.

Erection of a dump at Seventy-first street, East River.

Extension of Pier at Twenty-second street, East River.

Erection of a dump at Forty-third street, East River.

Erection of a derrick between Piers Nos. 38 and 39, North River.

Erection of a derrick between Piers Nos. 38 and 39, North river.

Driving of piles at the end of Seventh avenue, Harlem River.

Extension of bulkhead at Forty-seventh street, East River.

Erection of a shipping office at Pier No. 9, North River.

Erection of a shanty between Piers Nos. 38 and 39, North River.

Repairs to the outer end of Piers Nos. 4, 5 and 6, East River.

Insertion of a 6-inch drain pipe between Piers Nos. 12 and 13, East River.

Erection of a Bulkhead at Seventy-fourth street, East River.

Removing 2 mooring posts at Pier No. 51, East River.

Erection of platform between Piers No. 6, 7 and 8, North River.

Erection of a shed on Piers Nos. 6 and 7, &c., North River.

Construction of a shed on Pier (old) No. 34, North River.

Extension to Pier No. 34, East River.

Erection of a platform at Sixty-third street, East River.

Erection of a shed on Pier at Twenty-fourth street, North River.

Erection of a platform at Pier No. 33, North River.

Placing of piles at corner of Pier (new) No. 45, North River.

Erection of a platform between Seventy-ninth and Eightieth streets, East River.

Erection of a spur midway to Pier No. 35, North River.

Erection of an ice bridge south of Pier at Forty-sixth street, North River.

Erection of an ice bridge at Fifty-third street, East River.